

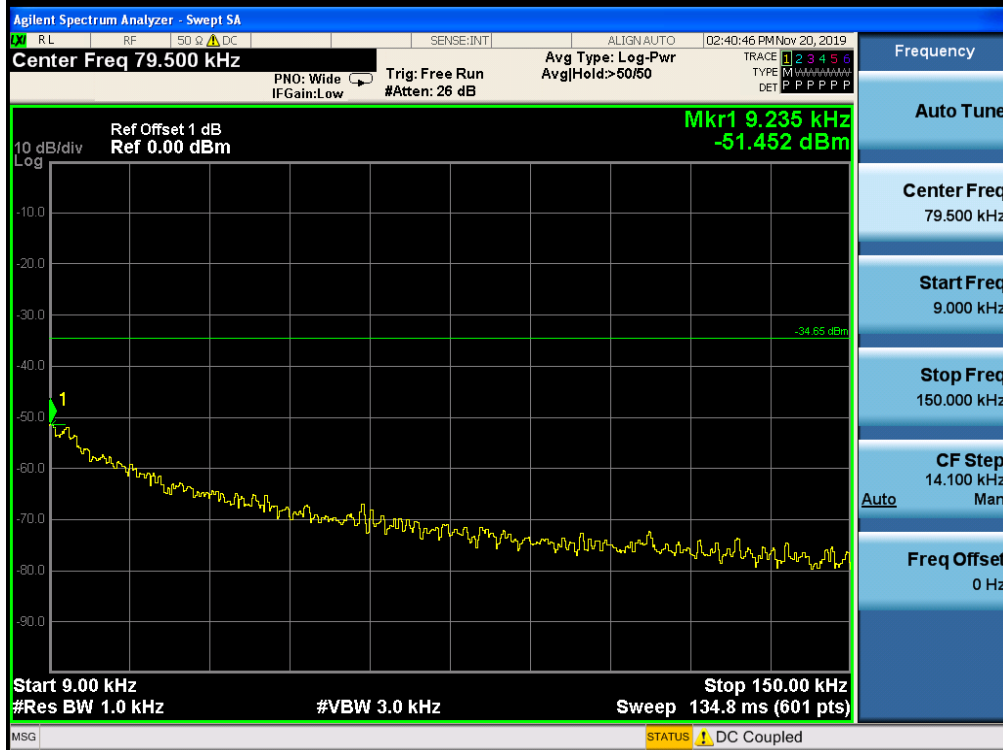
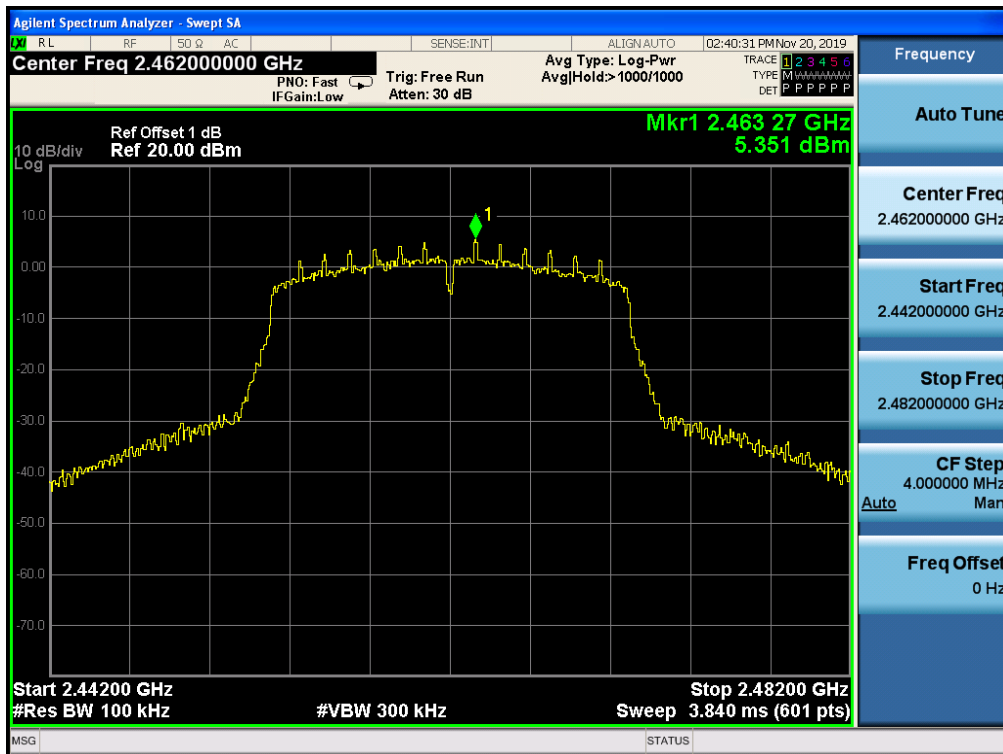


4.8.1.1.9 802.11 N20\_ Highest Channel



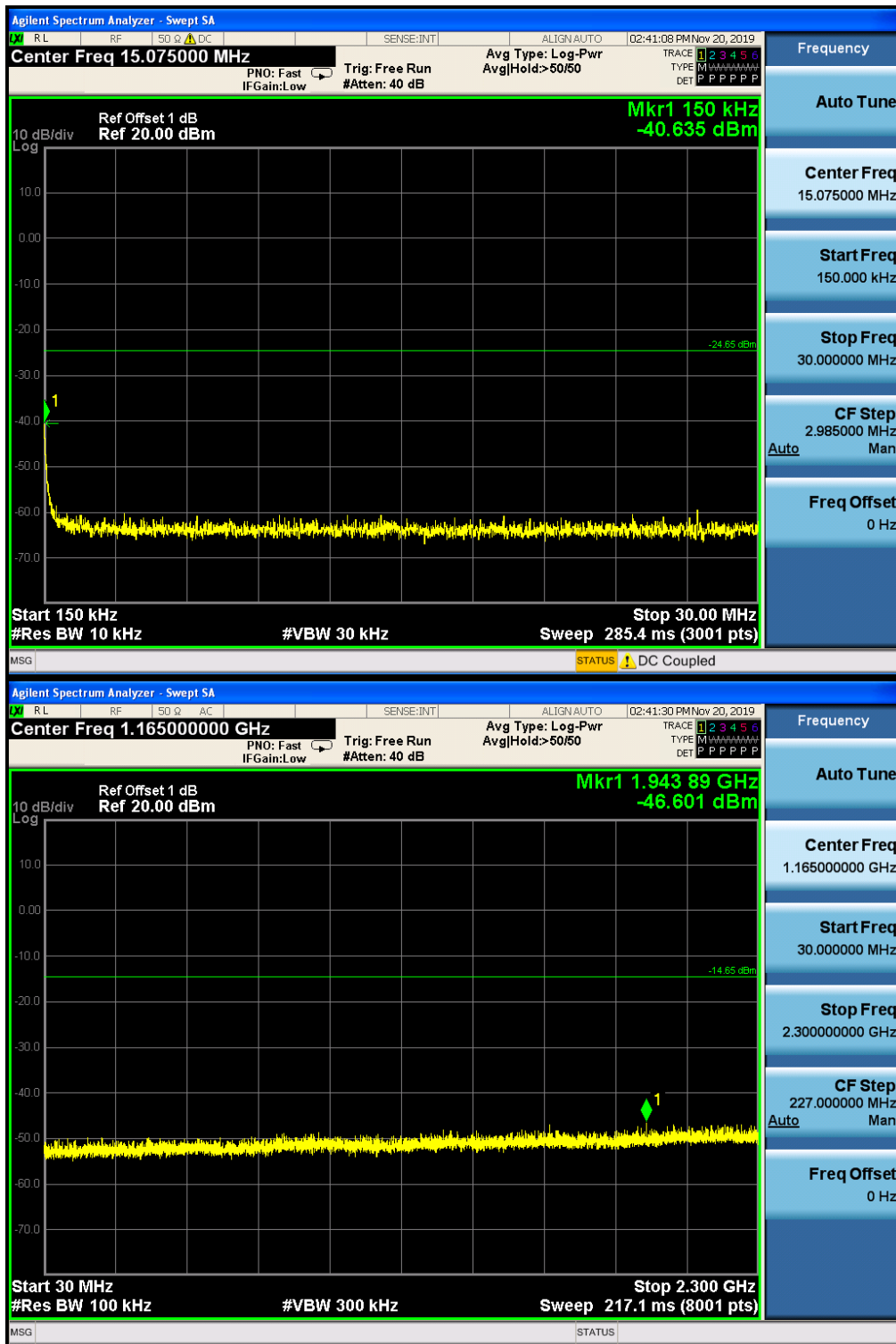
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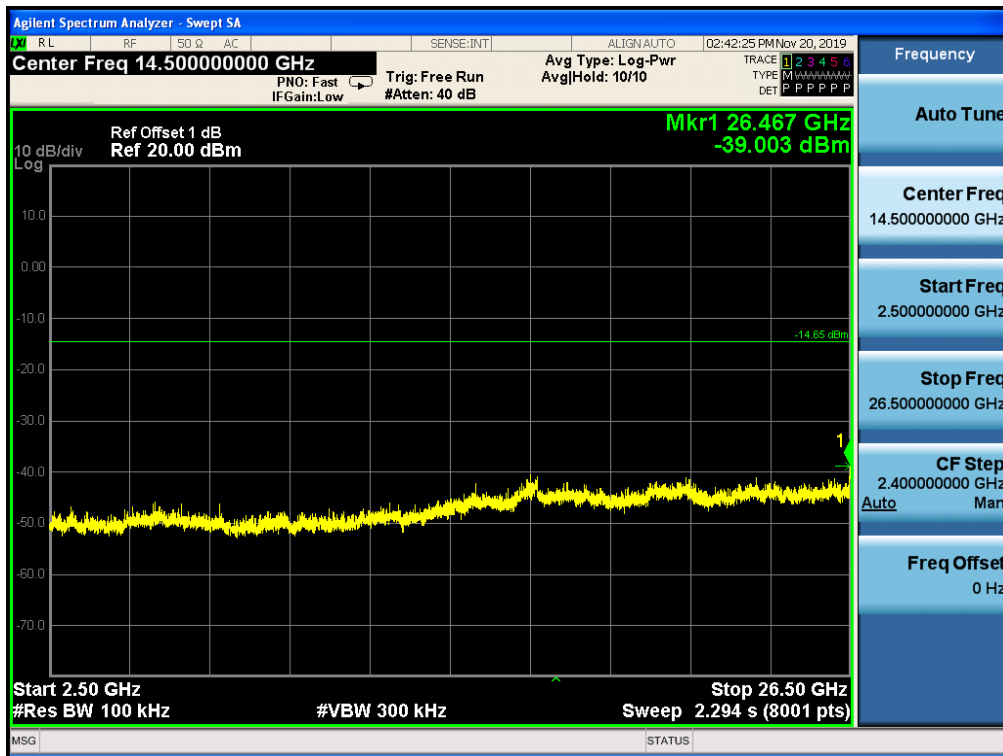


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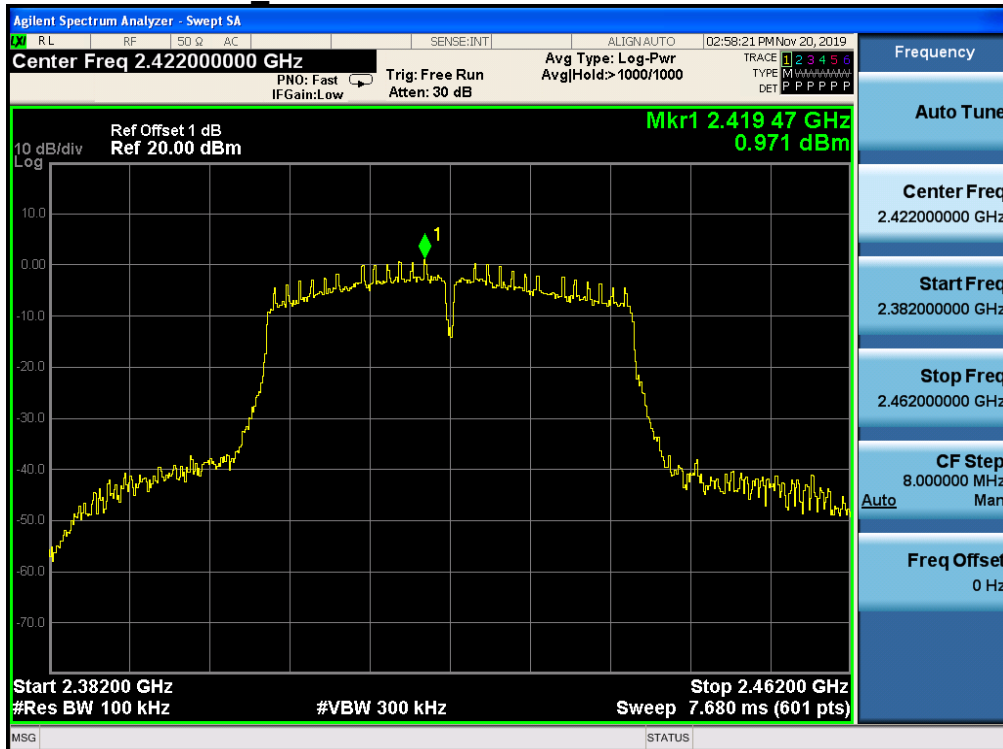
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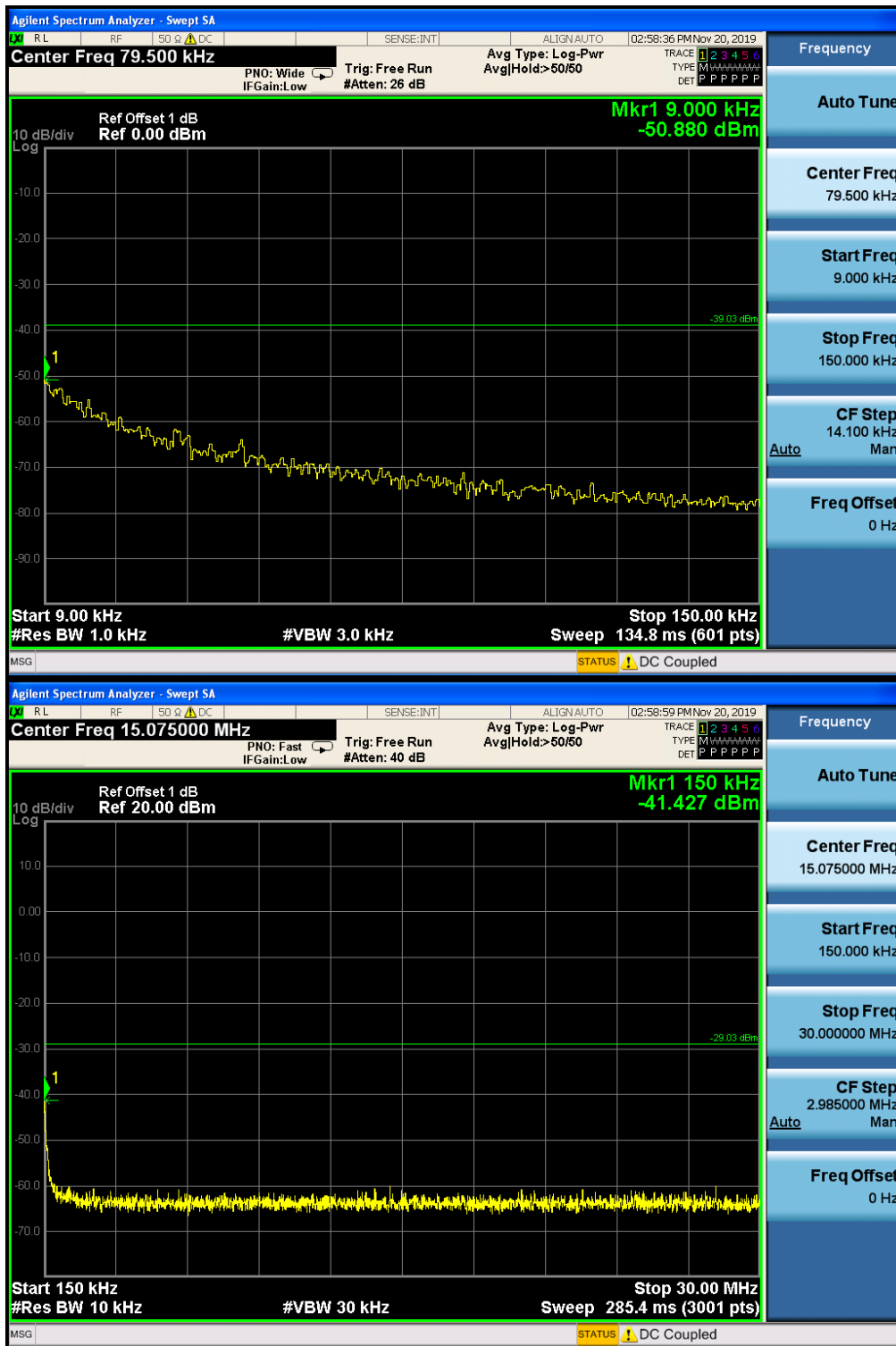


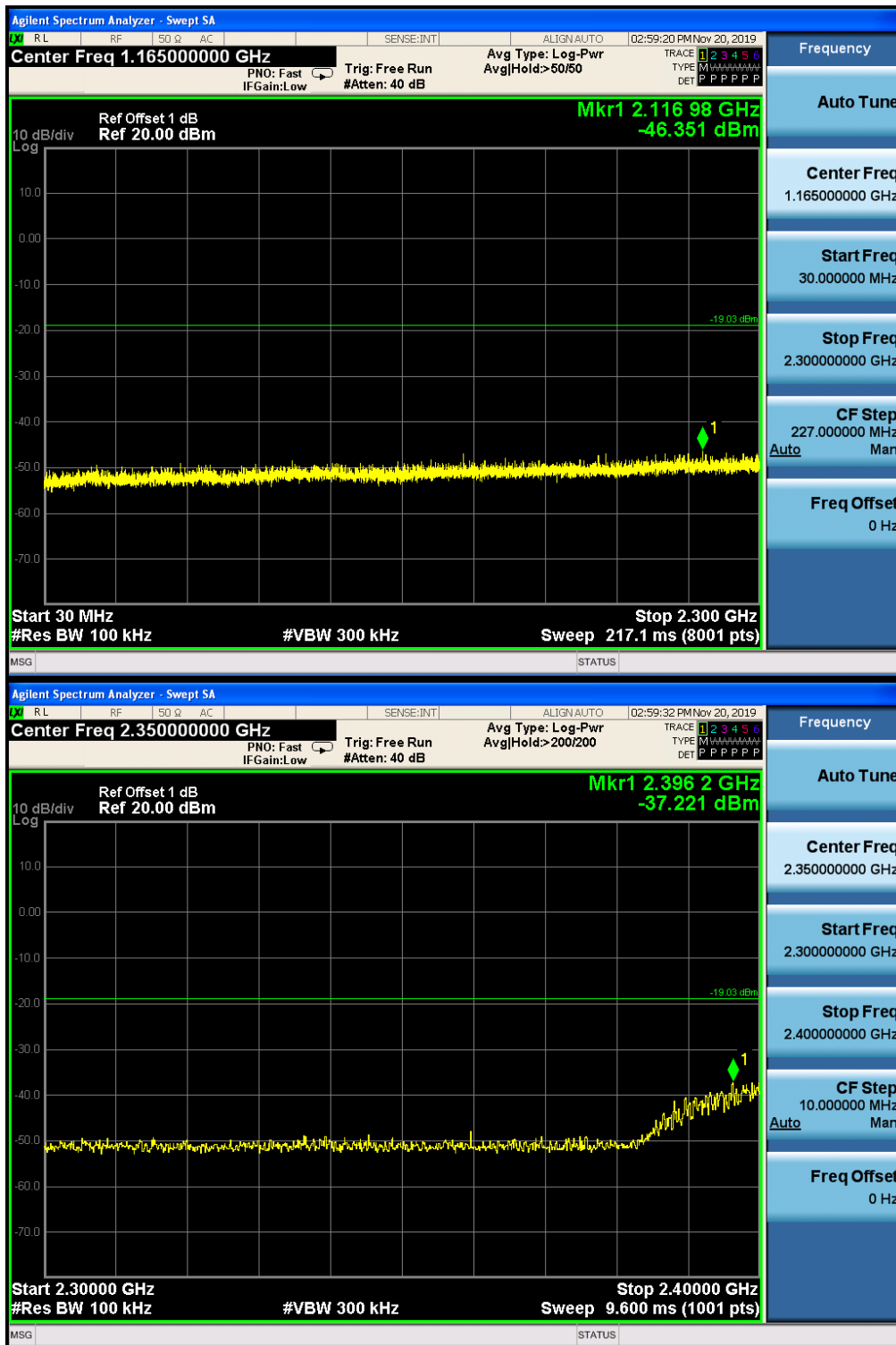


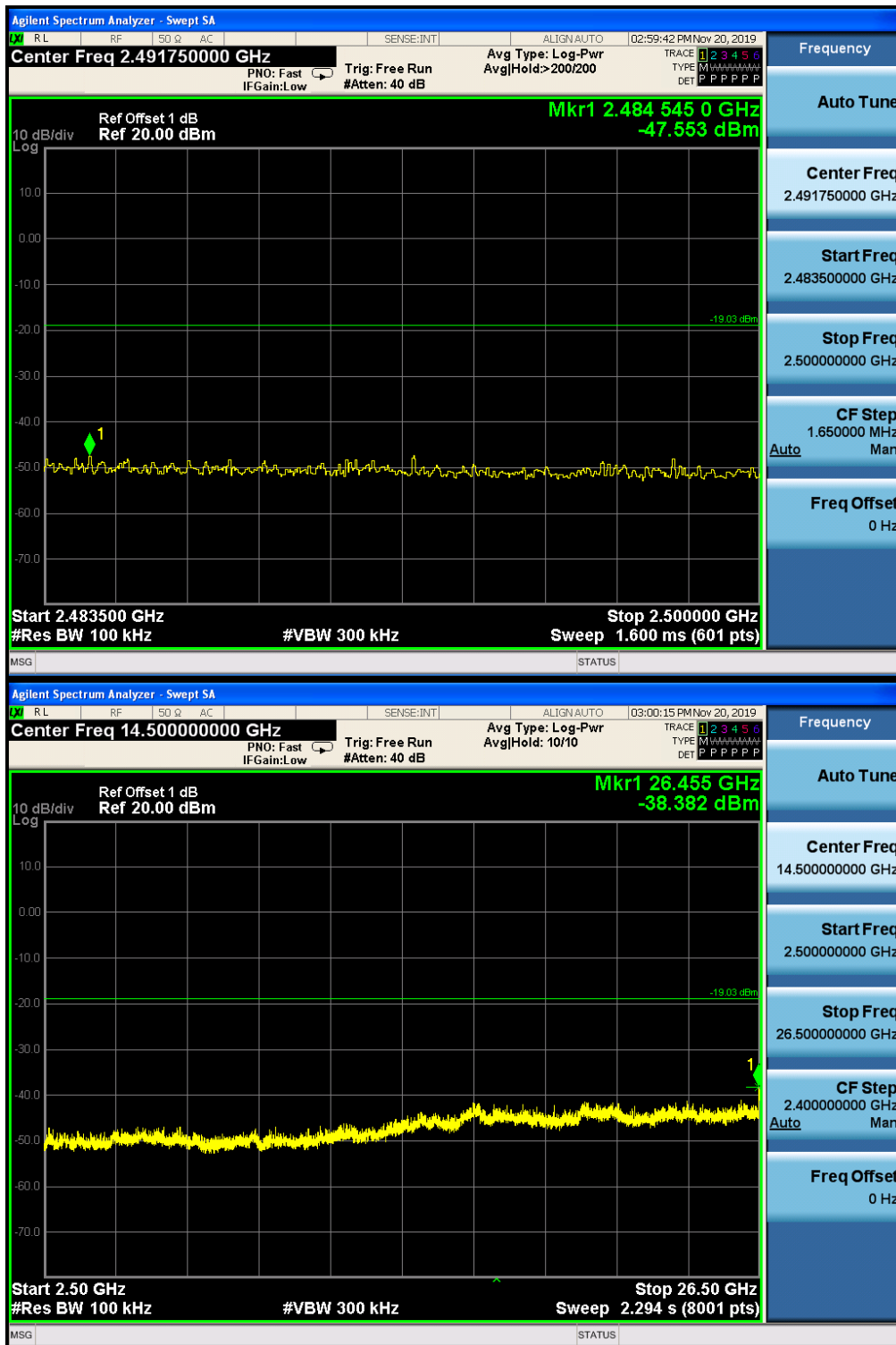


4.8.1.1.10 802.11N40 Lowest Channel







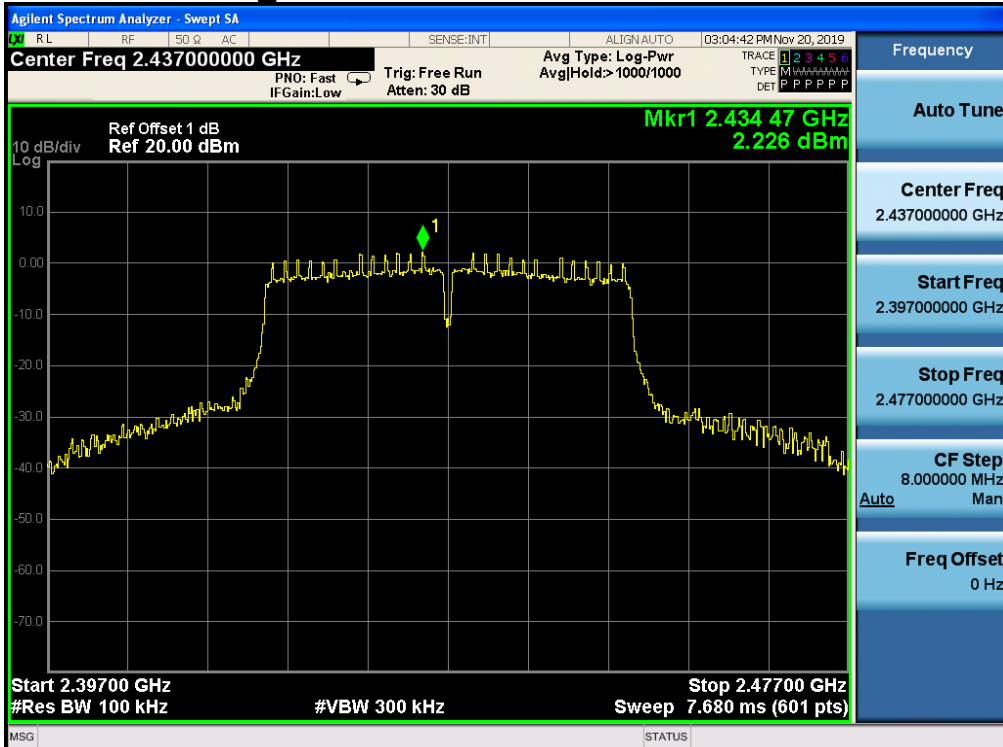


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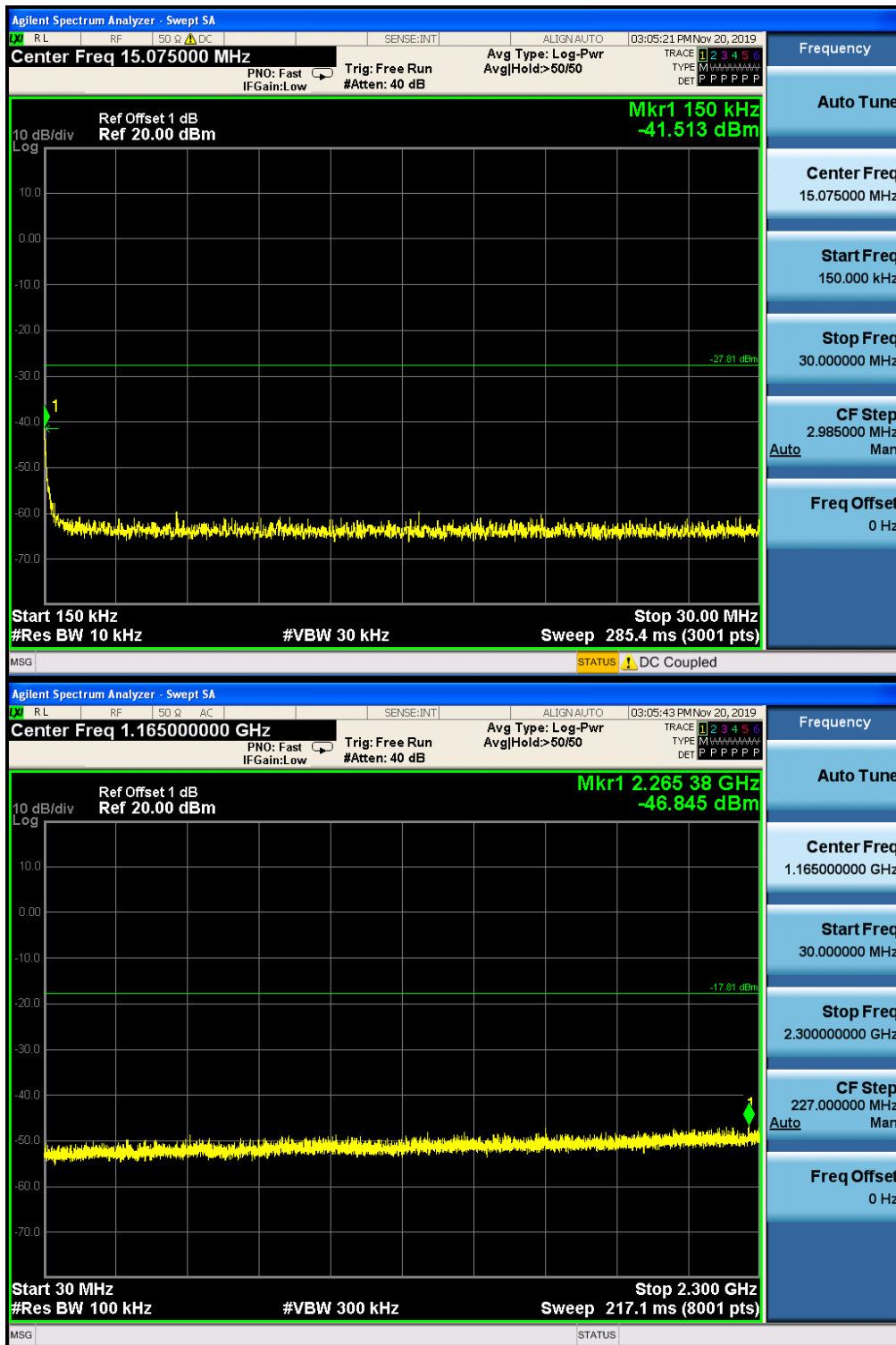


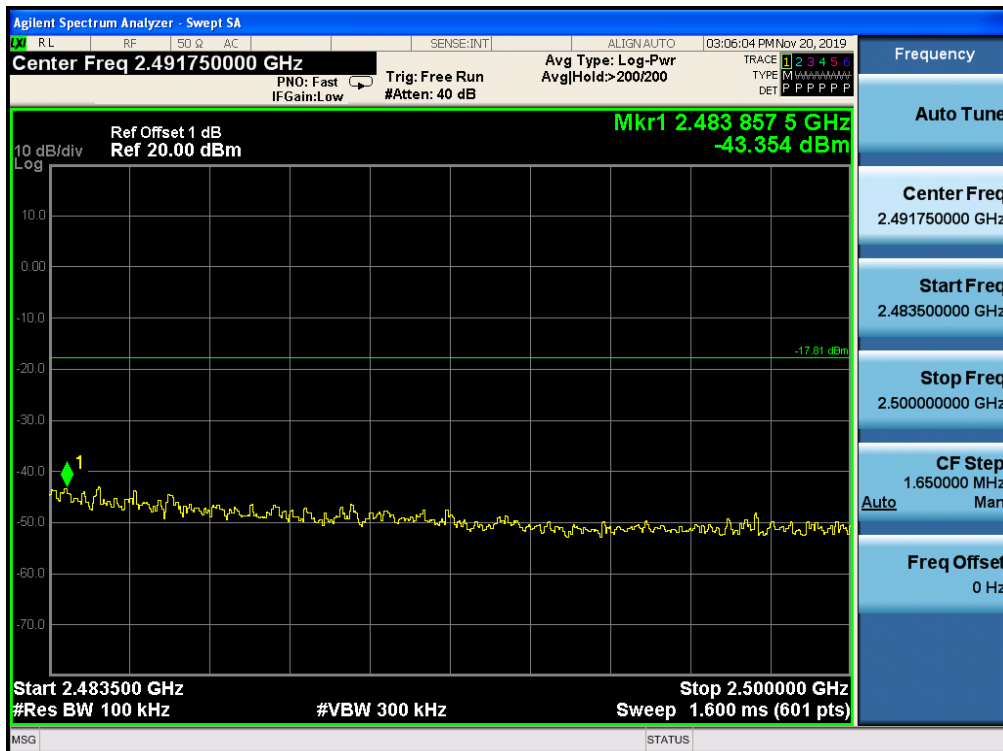
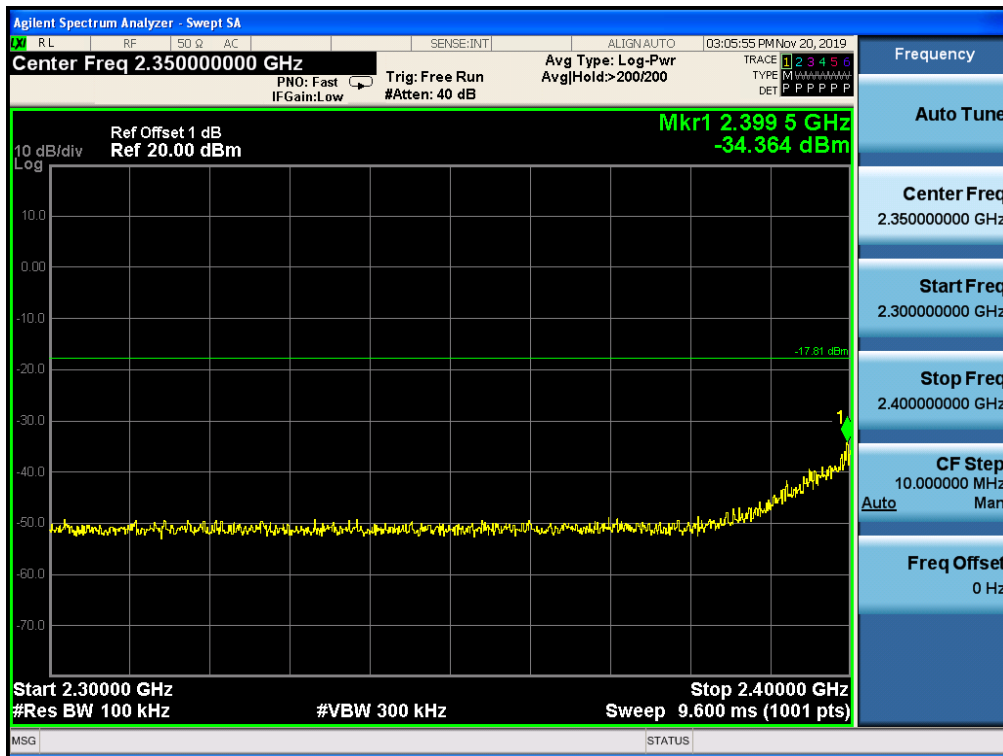
**4.8.1.1.11 802.11 N40 Middle Channel**

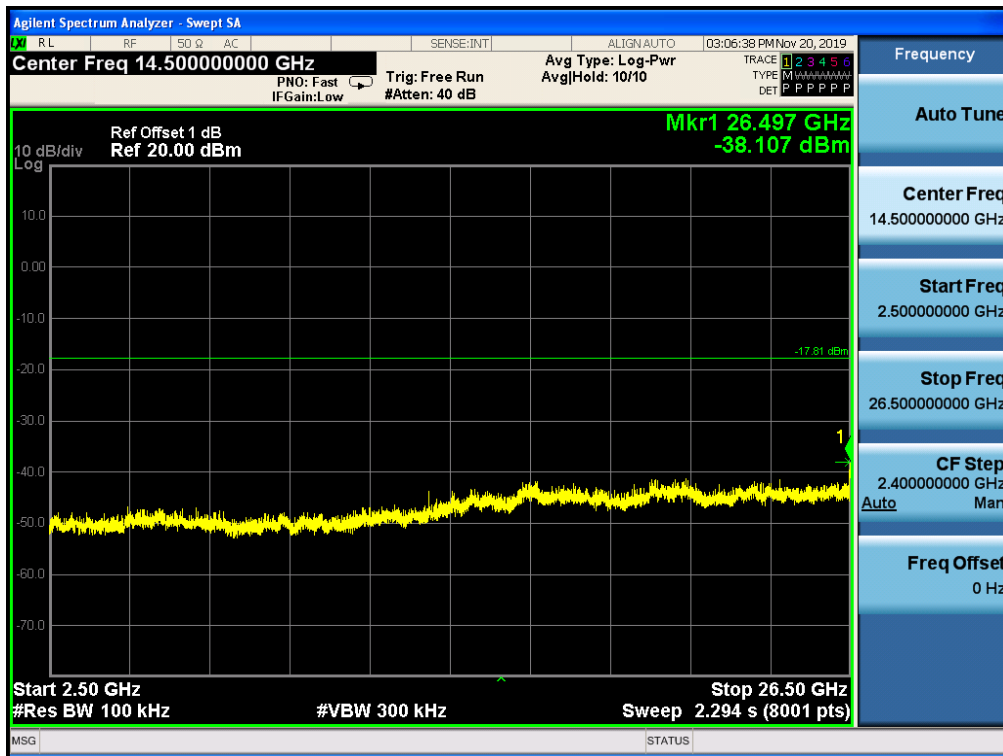


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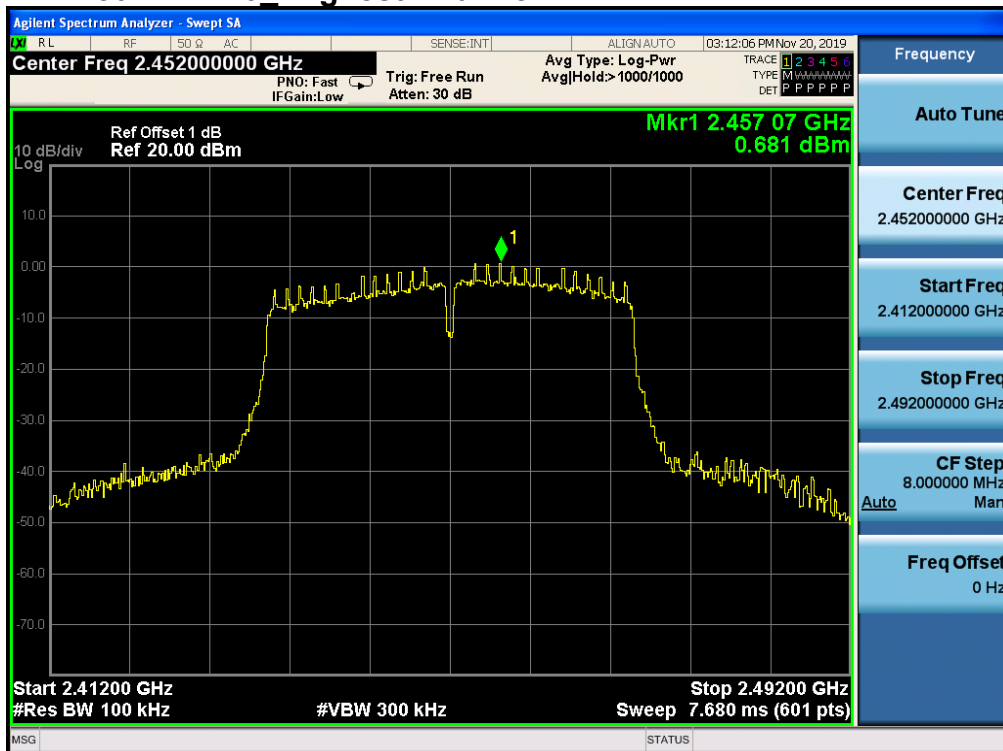
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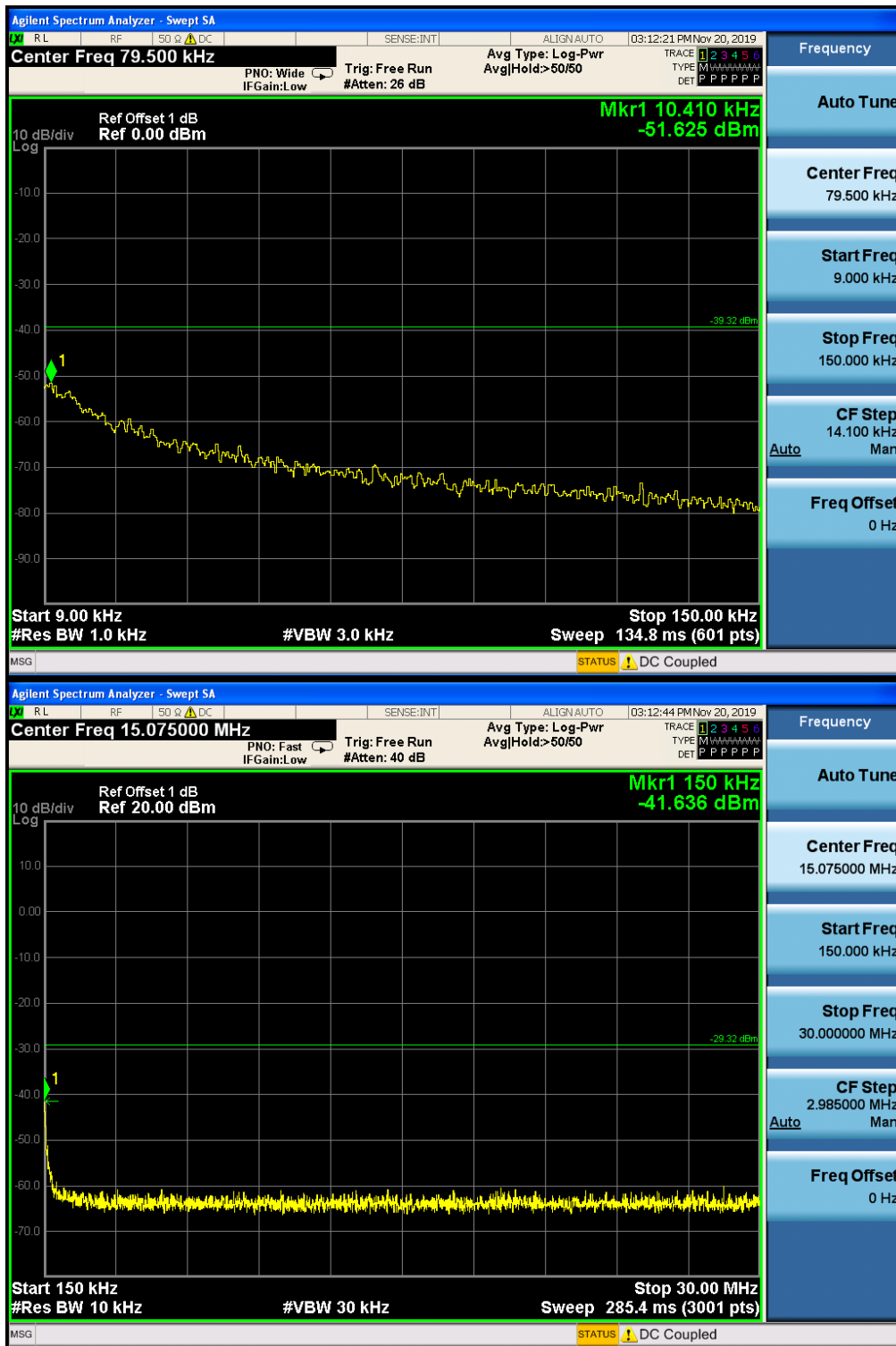


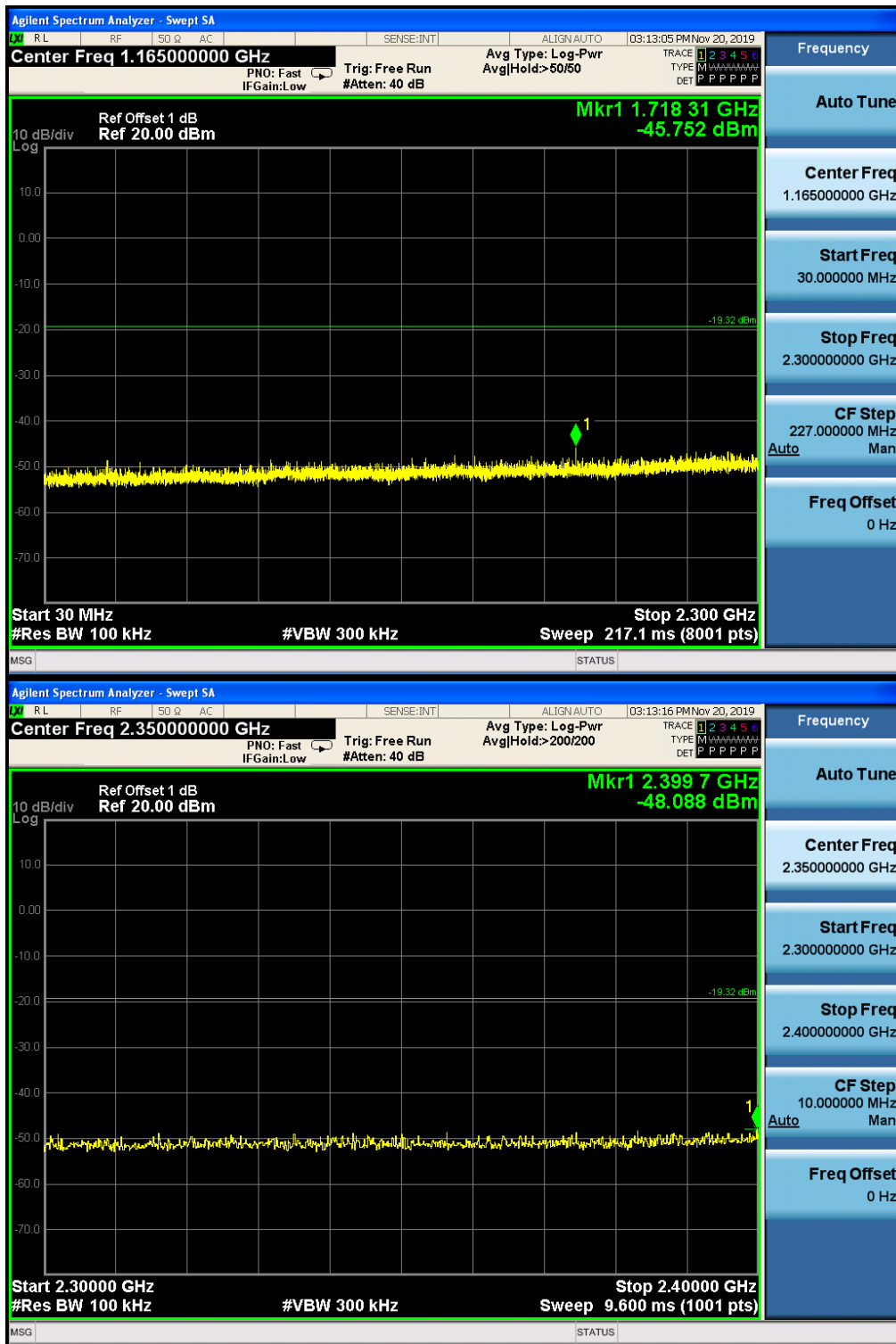
4.8.1.1.12 802.11 N40\_Highest Channel



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**Remark:**

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

**4.9 Radiated Spurious Emissions**

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3	
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:	
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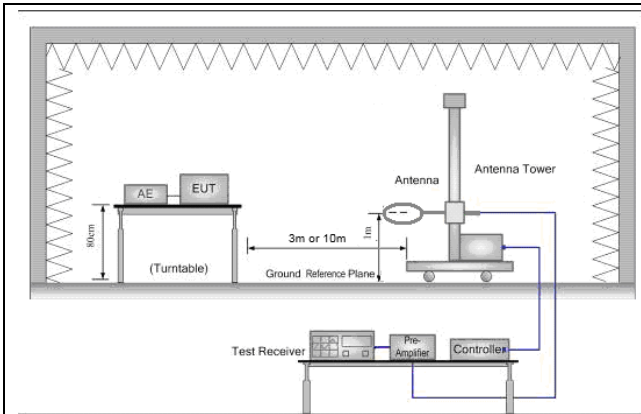


Figure 1. Below 30MHz

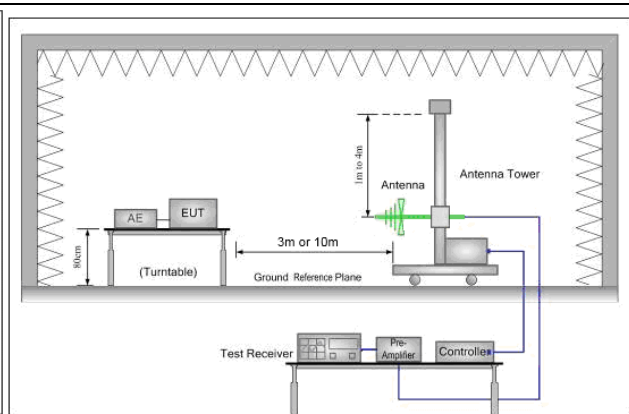


Figure 2. 30MHz to 1GHz

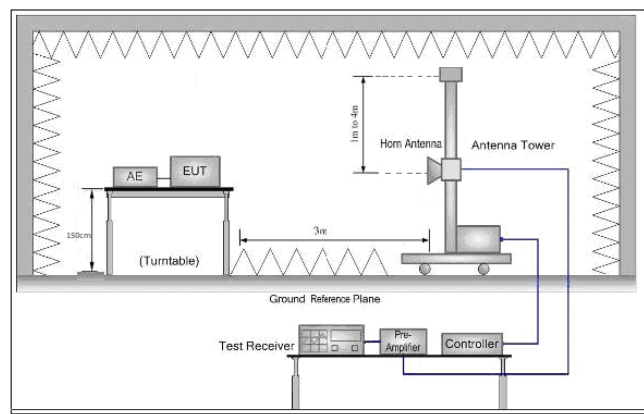


Figure 3. Above 1 GHz

**Test Procedure:**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be



	<p>re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11N(HT40)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

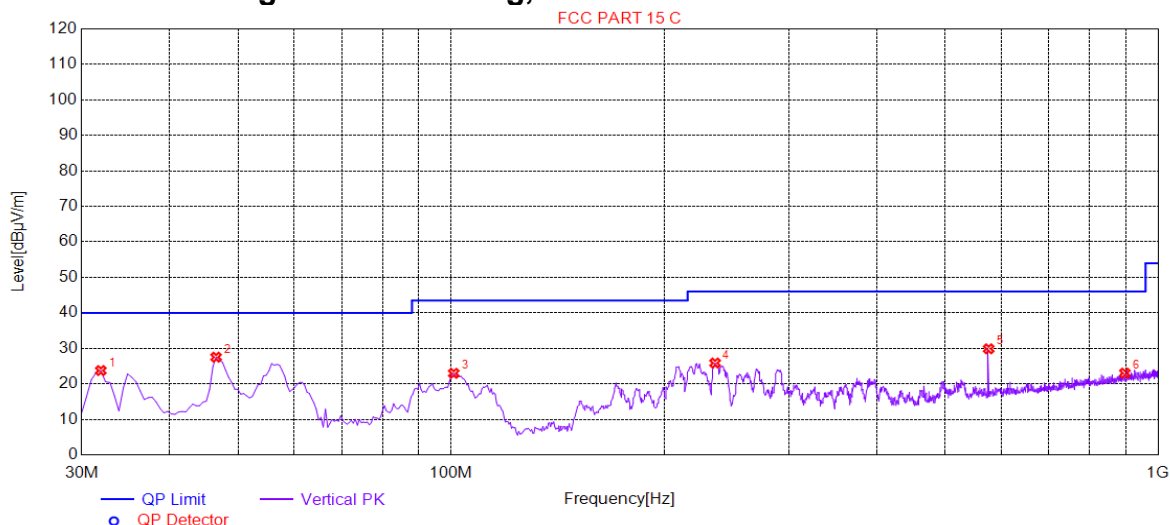


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### 4.9.1 Radiated emission below 1GHz

#### 4.9.1.1 Charge + Transmitting, Vertical



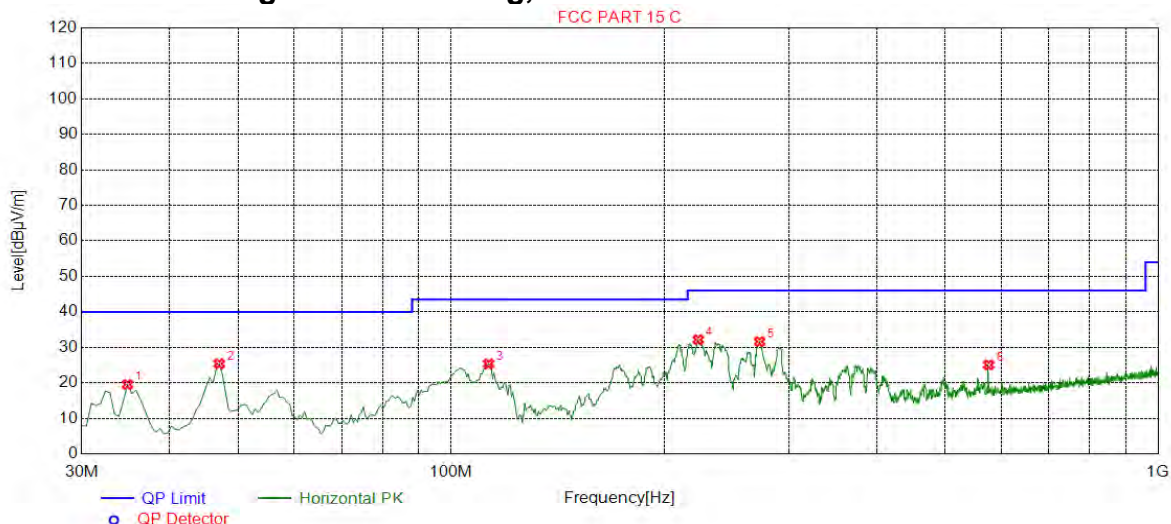
Suspected List								
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1	31.9410	23.75	-32.81	40.00	16.25	100	347	Vertical
2	46.4982	27.52	-30.20	40.00	12.48	200	344	Vertical
3	100.8454	22.97	-31.68	43.50	20.53	100	110	Vertical
4	236.2281	25.87	-29.74	46.00	20.13	200	177	Vertical
5	575.8979	29.88	-20.74	46.00	16.12	100	72	Vertical
6	897.6138	23.03	-15.27	46.00	22.97	200	294	Vertical



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**4.9.1.2 Charge + Transmitting, Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8524	19.53	-32.76	40.00	20.47	200	316	Horizontal
2	46.9835	25.38	-30.20	40.00	14.62	200	344	Horizontal
3	112.9765	25.35	-32.16	43.50	18.15	200	256	Horizontal
4	223.6118	32.16	-30.19	46.00	13.84	100	227	Horizontal
5	273.1066	31.62	-28.64	46.00	14.38	100	220	Horizontal
6	575.8979	25.06	-20.74	46.00	20.94	100	332	Horizontal



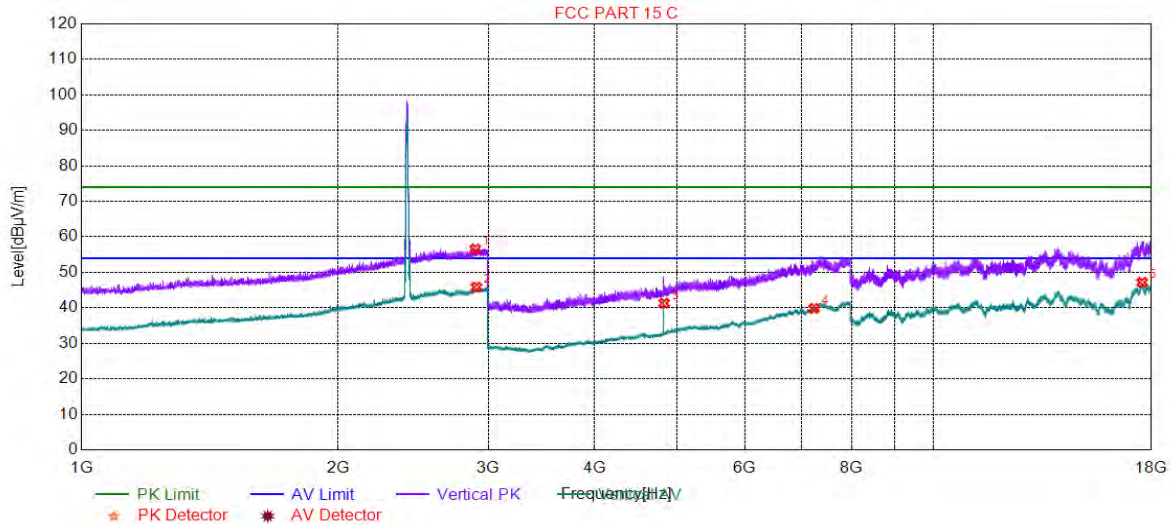
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### 4.9.2 Transmitter emission above 1GHz

#### 4.9.2.1 ANT1

##### 4.9.2.1.1 802.11B\_Lowest Channel\_ Vertical

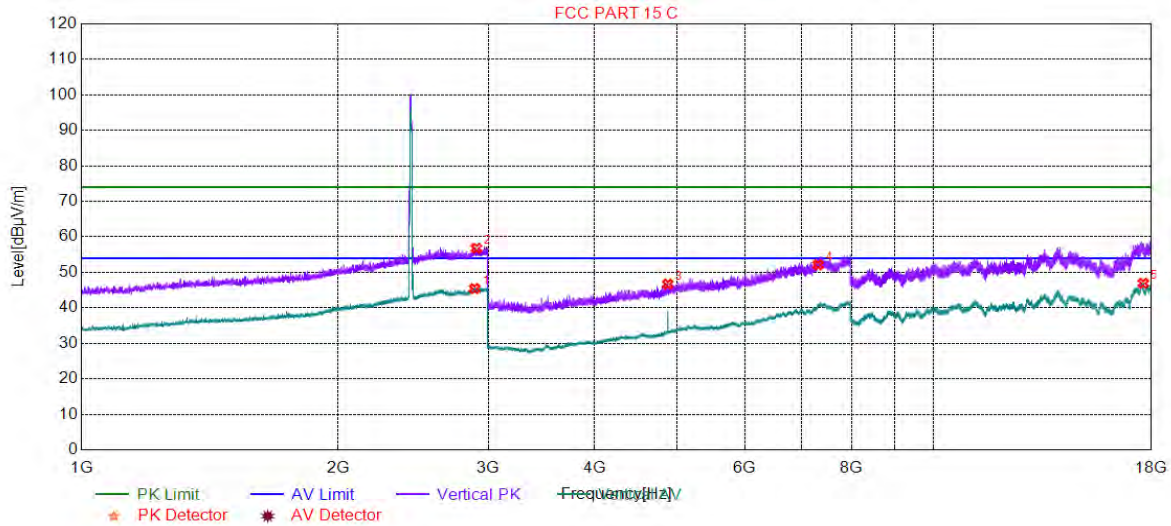


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2897.97	56.58	11.39	74.00	17.42	150	94	Vertical
2	2905.97	45.84	11.41	54.00	8.16	150	217	Vertical
3	4824.00	41.32	-14.90	54.00	12.68	150	318	Vertical
4	7236.00	39.84	-6.82	54.00	14.16	150	208	Vertical
5	17550.4	47.18	1.00	54.00	6.82	150	192	Vertical



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**4.9.2.1.2 802.11B\_ Middle Channel\_ Vertical**



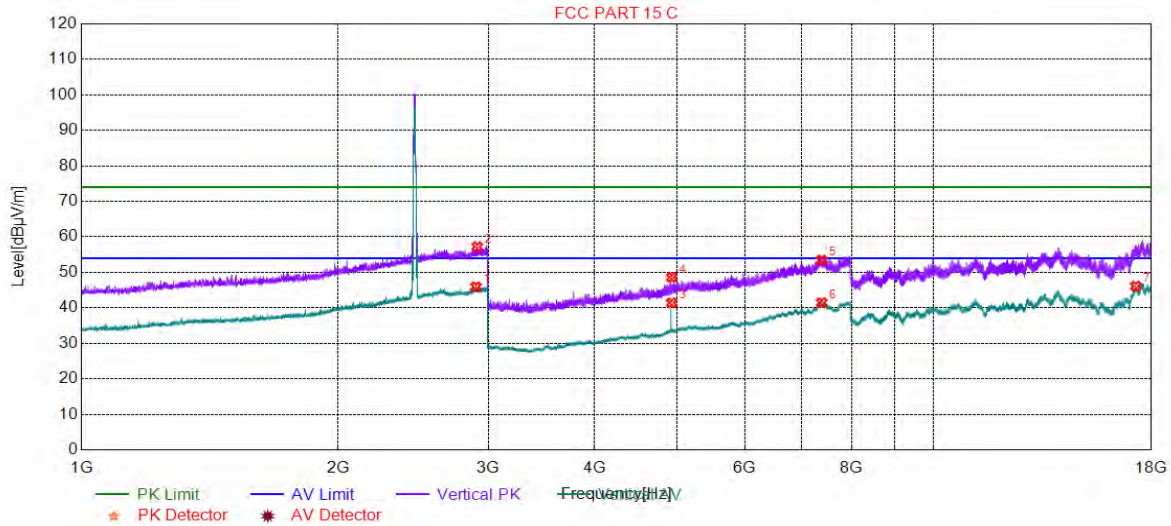
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2891.47	45.43	11.34	54.00	8.57	150	67	Vertical
2	2906.47	56.82	11.41	74.00	17.18	150	3	Vertical
3	4874.00	46.69	-14.68	74.00	27.31	150	207	Vertical
4	7311.00	52.12	-6.24	74.00	21.88	150	343	Vertical
5	17601.9	46.90	1.58	54.00	7.10	150	194	Vertical



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**4.9.2.1.3 802.11B\_ Highest Channel\_ Vertical**



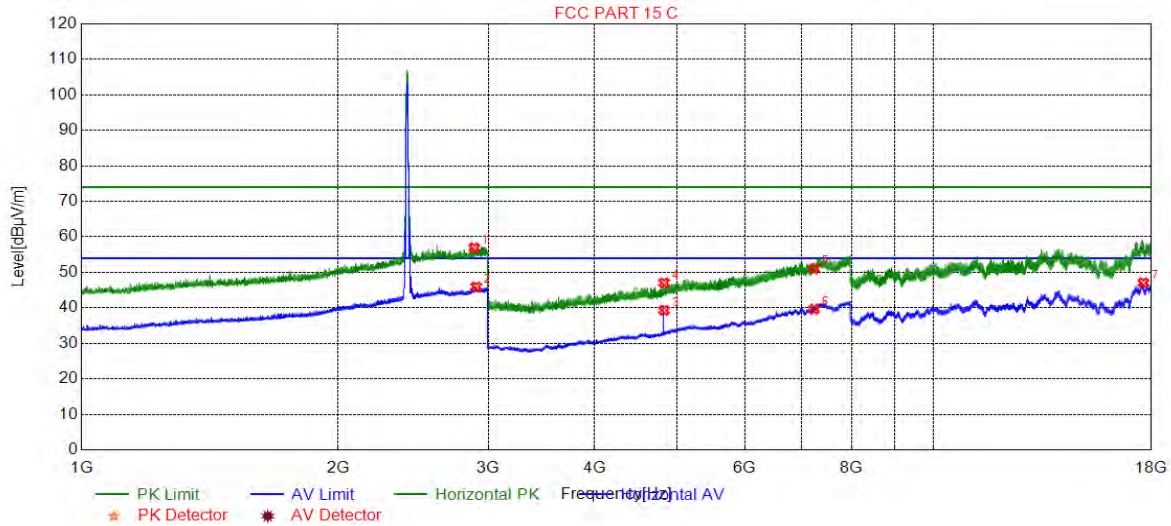
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2902.4756	45.95	11.41	54.00	8.05	150	30	Vertical
2	2912.9782	57.22	11.40	74.00	16.78	150	234	Vertical
3	4924.0000	41.41	-14.43	54.00	12.59	150	18	Vertical
4	4924.0000	48.59	-14.43	74.00	25.41	150	360	Vertical
5	7386.0000	53.47	-5.71	74.00	20.53	150	234	Vertical
6	7386.0000	41.46	-5.71	54.00	12.54	150	342	Vertical
7	17252.4626	46.13	-1.39	54.00	7.87	150	243	Vertical



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**4.9.2.1.4 802.11B\_Lowest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2889.9725	56.91	11.33	74.00	17.09	150	336	Horizontal
2	2904.9762	45.94	11.41	54.00	8.06	150	293	Horizontal
3	4824.0000	39.31	-14.90	54.00	14.69	150	209	Horizontal
4	4824.0000	47.05	-14.90	74.00	26.95	150	236	Horizontal
5	7236.0000	51.05	-6.82	74.00	22.95	150	18	Horizontal
6	7236.0000	39.63	-6.82	54.00	14.37	150	18	Horizontal
7	17609.9805	47.08	1.37	54.00	6.92	150	0	Horizontal

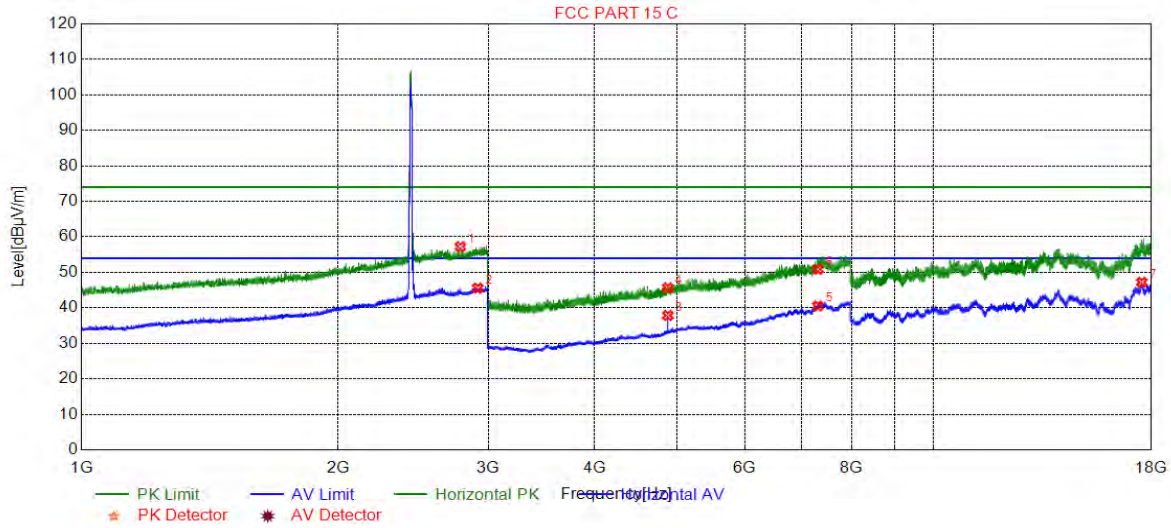


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**4.9.2.1.5 802.11B\_ Middle Channel\_ Horizontal**



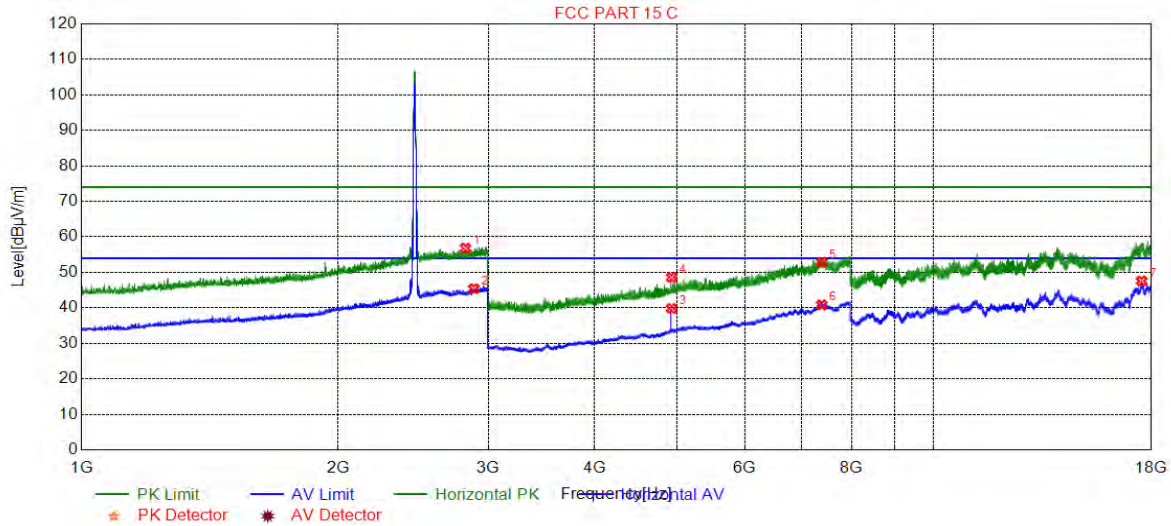
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2782.9457	57.24	10.54	74.00	16.76	150	347	Horizontal
2	2916.4791	45.57	11.40	54.00	8.43	150	269	Horizontal
3	4874.0000	37.86	-14.68	54.00	16.14	150	240	Horizontal
4	4874.0000	45.62	-14.68	74.00	28.38	150	212	Horizontal
5	7311.0000	40.53	-6.24	54.00	13.47	150	45	Horizontal
6	7311.0000	50.85	-6.24	74.00	23.15	150	45	Horizontal
7	17533.9767	47.21	0.78	54.00	6.79	150	43	Horizontal



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**4.9.2.1.6 802.11B\_ Highest Channel\_ Horizontal**



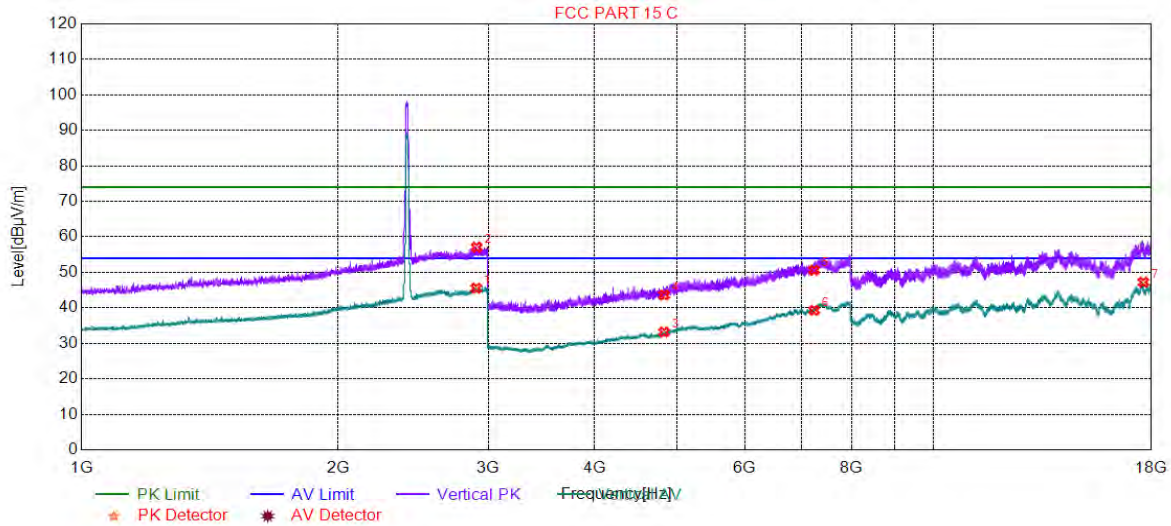
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2821.4554	56.83	10.81	74.00	17.17	150	88	Horizontal
2	2885.9715	45.41	11.30	54.00	8.59	150	191	Horizontal
3	4924.0000	39.85	-14.43	54.00	14.15	150	236	Horizontal
4	4924.0000	48.56	-14.43	74.00	25.44	150	236	Horizontal
5	7386.0000	52.82	-5.71	74.00	21.18	150	209	Horizontal
6	7386.0000	40.84	-5.71	54.00	13.16	150	236	Horizontal
7	17526.9763	47.59	0.70	54.00	6.41	150	242	Horizontal



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**4.9.2.1.7 802.11G\_Lowest Channel\_Vertical**



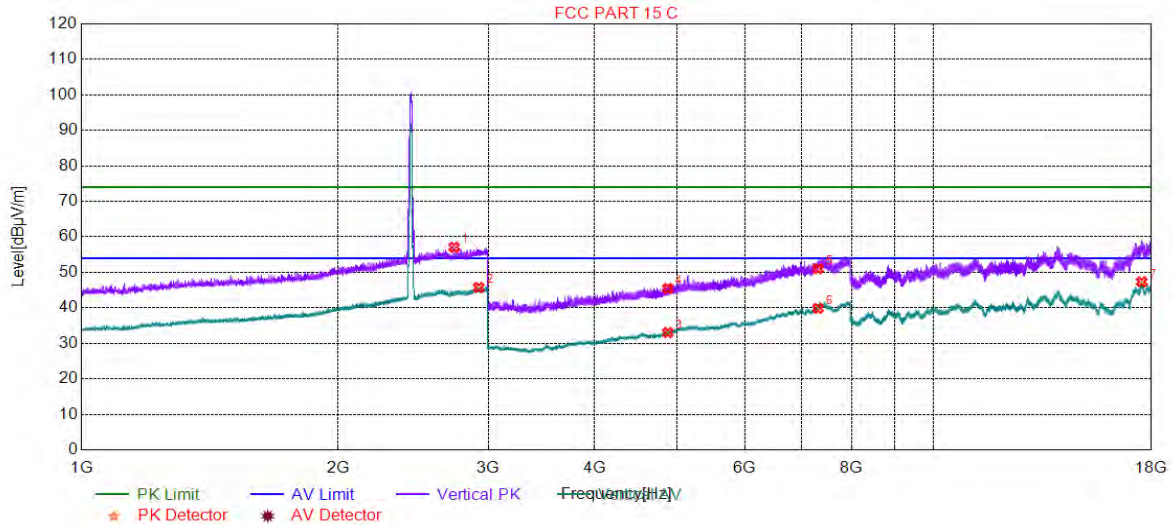
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2903.9760	45.54	11.41	54.00	8.46	150	44	Vertical
2	2907.4769	57.09	11.41	74.00	16.91	150	5	Vertical
3	4824.0000	33.17	-14.90	54.00	20.83	150	18	Vertical
4	4824.0000	43.62	-14.90	74.00	30.38	150	52	Vertical
5	7236.0000	50.61	-6.82	74.00	23.39	150	18	Vertical
6	7236.0000	39.31	-6.82	54.00	14.69	150	340	Vertical
7	17609.4805	47.24	1.38	54.00	6.76	150	220	Vertical



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**4.9.2.1.8 802.11G\_Middle Channel\_Vertical**



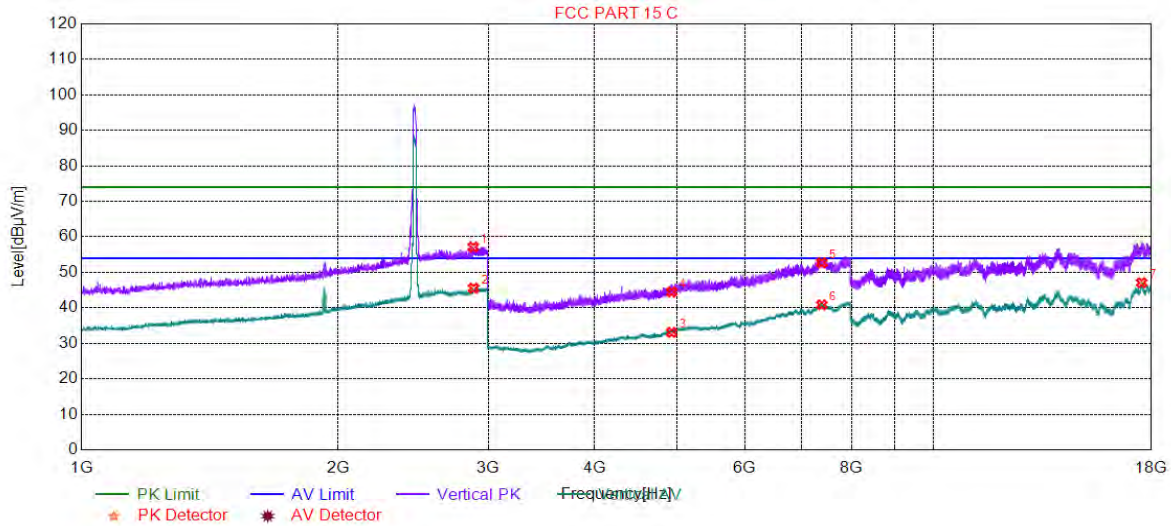
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2735.9340	57.09	10.26	74.00	16.91	150	38	Vertical
2	2923.9810	45.73	11.40	54.00	8.27	150	139	Vertical
3	4874.0000	33.03	-14.68	54.00	20.97	150	18	Vertical
4	4874.0000	45.48	-14.68	74.00	28.52	150	18	Vertical
5	7311.0000	51.03	-6.24	74.00	22.97	150	207	Vertical
6	7311.0000	39.87	-6.24	54.00	14.13	150	99	Vertical
7	17529.9765	47.32	0.73	54.00	6.68	150	193	Vertical



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**4.9.2.1.9 802.11G\_ Highest Channel\_ Vertical**



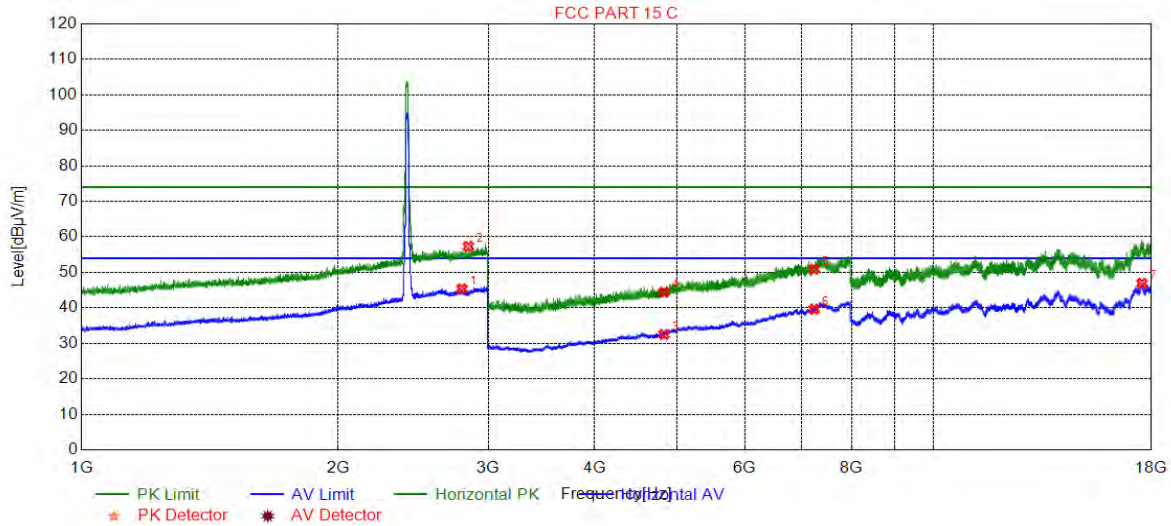
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2881.9705	57.14	11.27	74.00	16.86	150	62	Vertical
2	2883.4709	45.54	11.28	54.00	8.46	150	240	Vertical
3	4924.0000	33.09	-14.43	54.00	20.91	150	345	Vertical
4	4924.0000	44.47	-14.43	74.00	29.53	150	291	Vertical
5	7386.0000	52.72	-5.71	74.00	21.28	150	44	Vertical
6	7386.0000	40.84	-5.71	54.00	13.16	150	345	Vertical
7	17527.4764	47.10	0.70	54.00	6.90	150	241	Vertical



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**4.9.2.1.10 802.11G\_Lowest Channel\_ Horizontal**



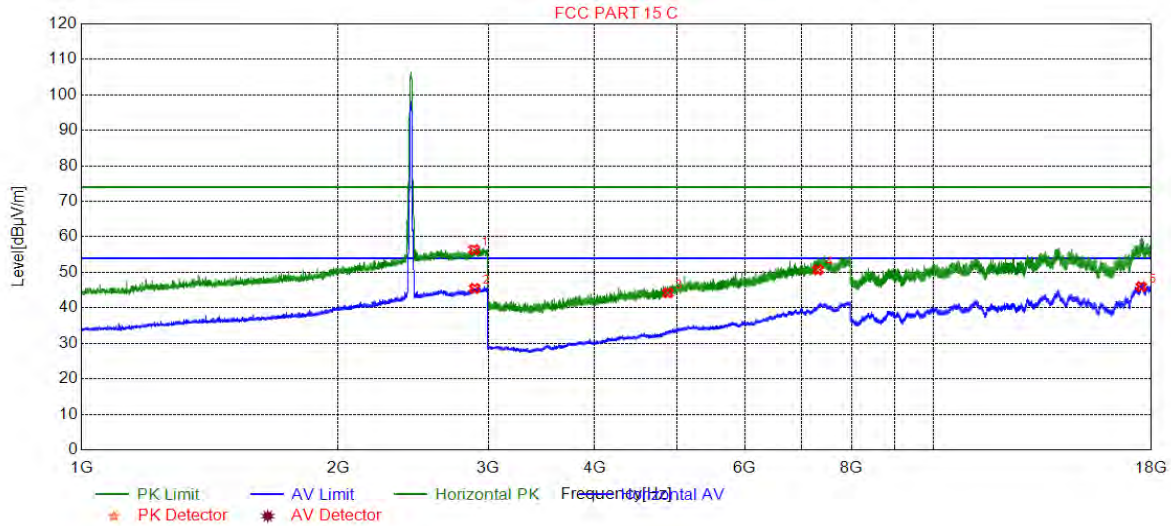
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2793.9485	45.37	10.60	54.00	8.63	150	198	Horizontal
2	2843.4609	57.31	10.97	74.00	16.69	150	64	Horizontal
3	4824.0000	32.52	-14.90	54.00	21.48	150	358	Horizontal
4	4824.0000	44.43	-14.90	74.00	29.57	150	246	Horizontal
5	7236.0000	50.92	-6.82	74.00	23.08	150	246	Horizontal
6	7236.0000	39.65	-6.82	54.00	14.35	150	213	Horizontal
7	17543.4772	46.91	0.91	54.00	7.09	150	163	Horizontal



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**4.9.2.1.11 802.11G\_Middle Channel\_Horizontal**



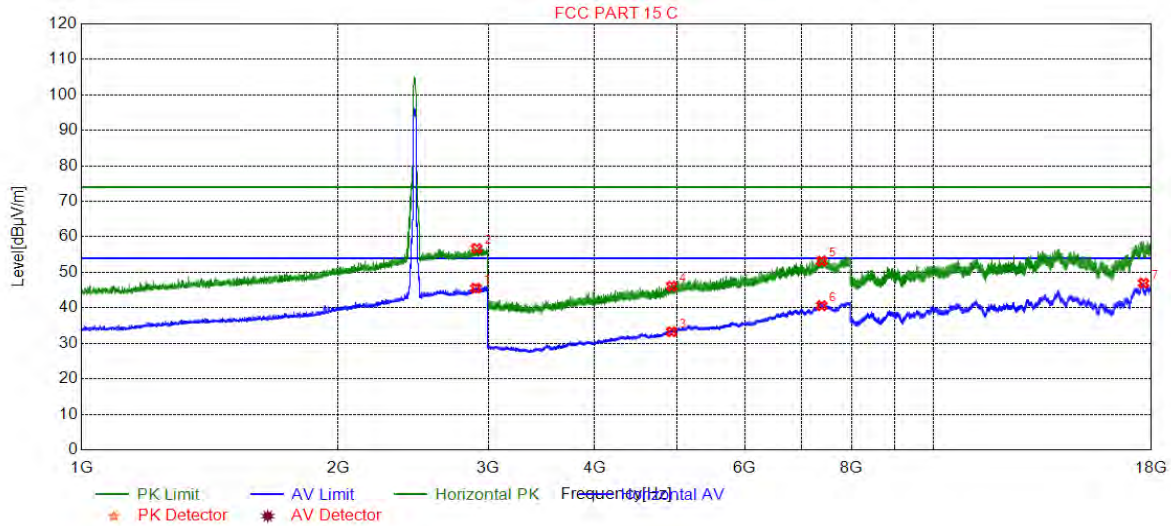
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2888.4721	56.41	11.32	74.00	17.59	150	53	Horizontal
2	2891.9730	45.50	11.35	54.00	8.50	150	241	Horizontal
3	4874.0000	44.20	-14.68	74.00	29.80	150	263	Horizontal
4	7311.0000	50.71	-6.24	74.00	23.29	150	181	Horizontal
5	17508.4754	45.96	0.46	54.00	8.04	150	42	Horizontal



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**4.9.2.1.12 802.11G\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2901.9755	45.54	11.41	54.00	8.46	150	28	Horizontal
2	2907.9770	56.75	11.41	74.00	17.25	150	353	Horizontal
3	4924.0000	33.29	-14.43	54.00	20.71	150	127	Horizontal
4	4924.0000	46.10	-14.43	74.00	27.90	150	263	Horizontal
5	7386.0000	53.18	-5.71	74.00	20.82	150	316	Horizontal
6	7386.0000	40.63	-5.71	54.00	13.37	150	18	Horizontal
7	17620.4810	46.96	1.10	54.00	7.04	150	242	Horizontal

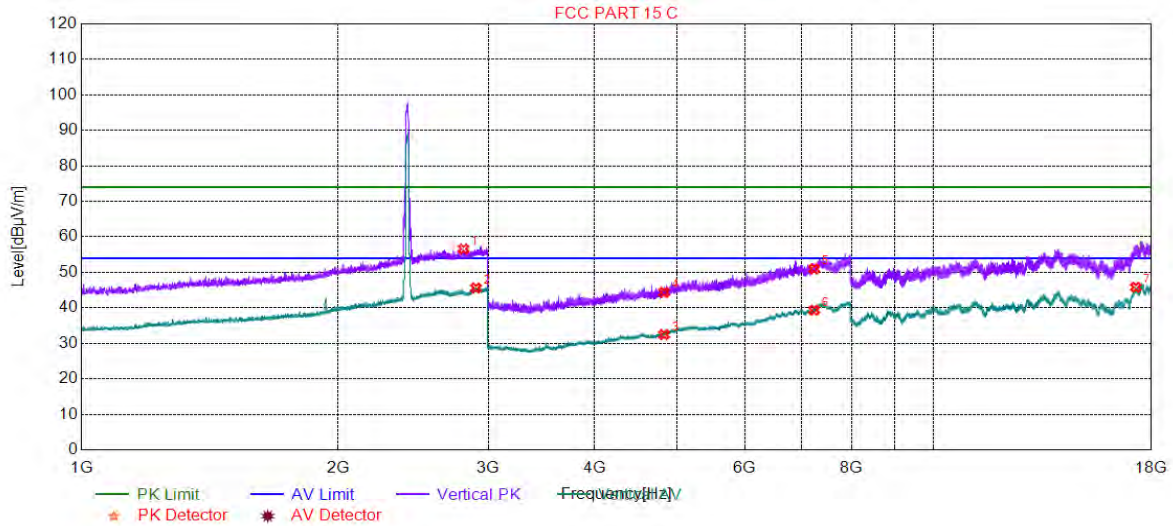


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**4.9.2.1.13 802.11N20\_Lowest Channel\_Vertical**

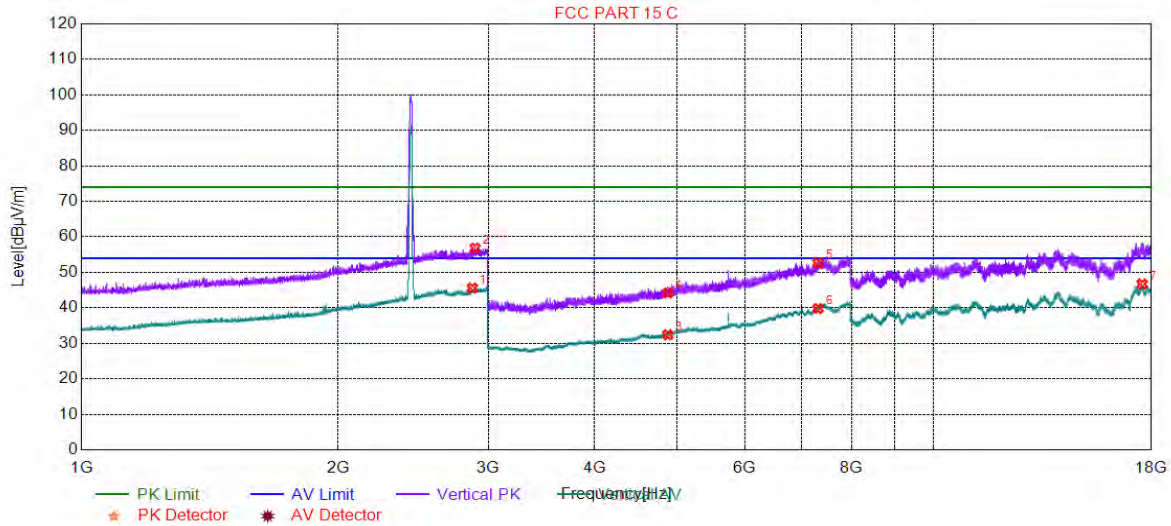


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2806.4516	56.60	10.69	74.00	17.40	150	134	Vertical
2	2902.4756	45.61	11.41	54.00	8.39	150	64	Vertical
3	4824.0000	32.47	-14.90	54.00	21.53	150	99	Vertical
4	4824.0000	44.37	-14.90	74.00	29.63	150	18	Vertical
5	7236.0000	50.99	-6.82	74.00	23.01	150	18	Vertical
6	7236.0000	39.37	-6.82	54.00	14.63	150	343	Vertical
7	17253.9627	45.81	-1.39	54.00	8.19	150	0	Vertical



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**4.9.2.1.14 802.11N20\_Middle Channel\_Vertical**



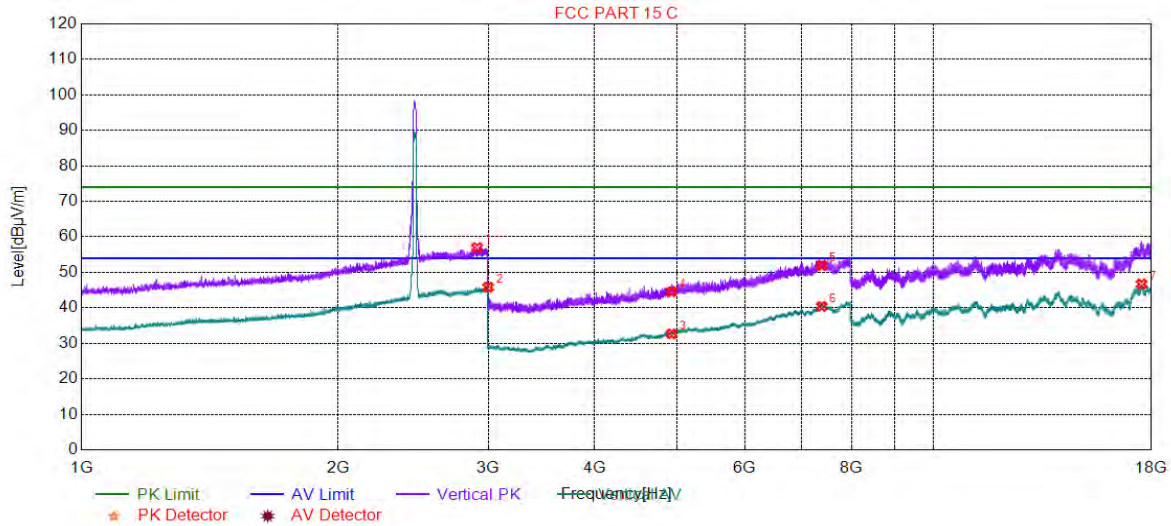
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2873.4684	45.58	11.21	54.00	8.42	150	202	Vertical
2	2895.4739	56.88	11.38	74.00	17.12	150	246	Vertical
3	4874.0000	32.42	-14.68	54.00	21.58	150	180	Vertical
4	4874.0000	44.17	-14.68	74.00	29.83	150	262	Vertical
5	7311.0000	52.68	-6.24	74.00	21.32	150	289	Vertical
6	7311.0000	39.80	-6.24	54.00	14.20	150	45	Vertical
7	17548.4774	46.72	0.97	54.00	7.28	150	240	Vertical



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**4.9.2.1.15 802.11N20\_ Highest Channel\_ Vertical**



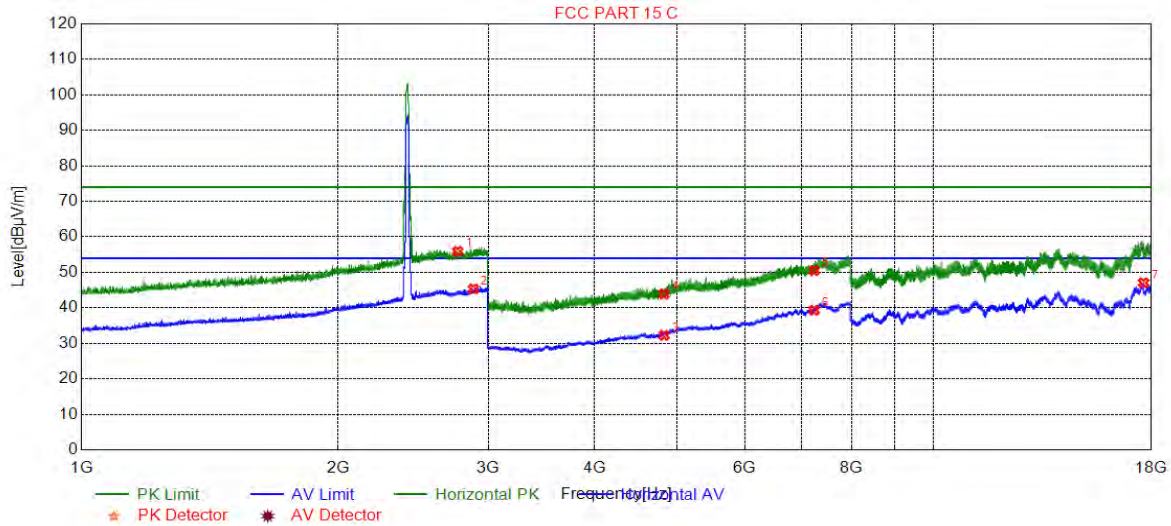
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2912.4781	56.99	11.40	74.00	17.01	150	82	Vertical
2	2999.4999	45.82	11.36	54.00	8.18	150	104	Vertical
3	4924.0000	32.68	-14.43	54.00	21.32	150	18	Vertical
4	4924.0000	44.55	-14.43	74.00	29.45	150	317	Vertical
5	7386.0000	51.93	-5.71	74.00	22.07	150	290	Vertical
6	7386.0000	40.43	-5.71	54.00	13.57	150	263	Vertical
7	17524.4762	46.71	0.66	54.00	7.29	150	193	Vertical



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**4.9.2.1.16 802.11N20\_Lowest Channel\_Horizontal**



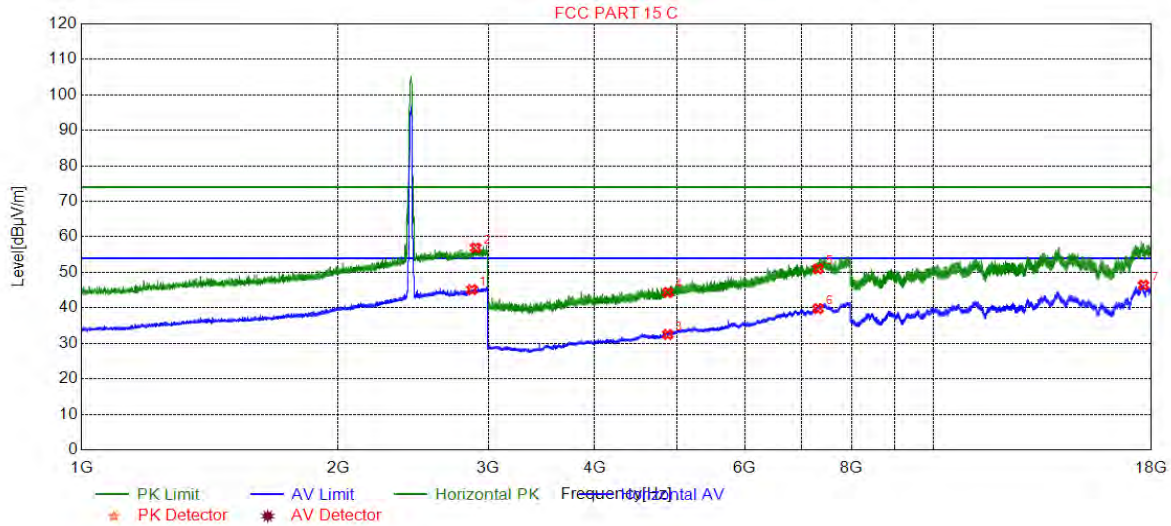
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2762.9407	55.93	10.42	74.00	18.07	150	32	Horizontal
2	2881.9705	45.35	11.27	54.00	8.65	150	148	Horizontal
3	4824.0000	32.25	-14.90	54.00	21.75	150	125	Horizontal
4	4824.0000	43.91	-14.90	74.00	30.09	150	342	Horizontal
5	7236.0000	50.50	-6.82	74.00	23.50	150	206	Horizontal
6	7236.0000	39.35	-6.82	54.00	14.65	150	179	Horizontal
7	17619.9810	47.07	1.11	54.00	6.93	150	0	Horizontal



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**4.9.2.1.17 802.11N20\_ Middle Channel\_ Horizontal**

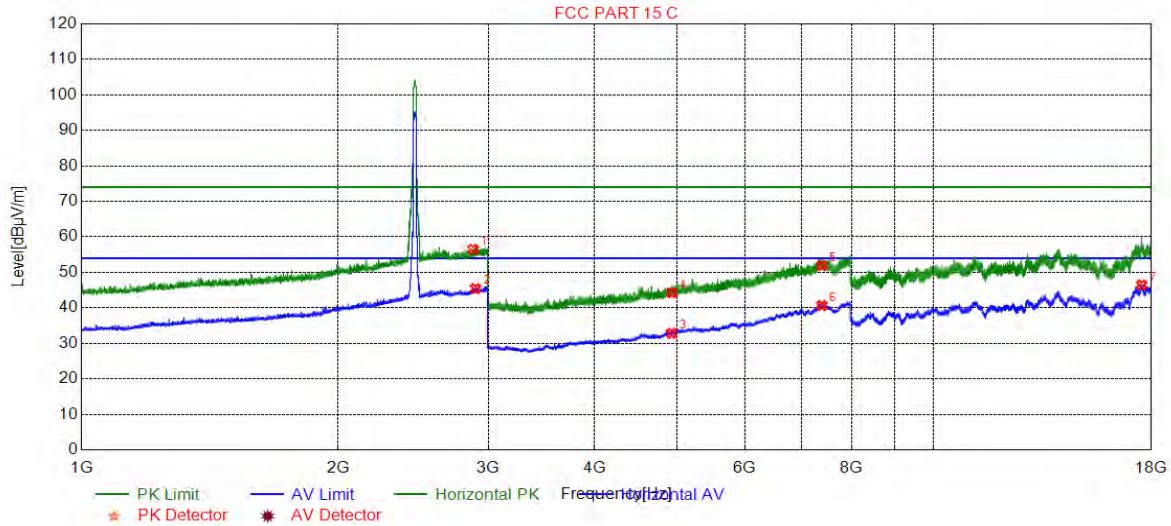


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2870.9677	45.13	11.19	54.00	8.87	150	134	Horizontal
2	2899.4749	56.92	11.41	74.00	17.08	150	214	Horizontal
3	4874.0000	32.50	-14.68	54.00	21.50	150	127	Horizontal
4	4874.0000	44.35	-14.68	74.00	29.65	150	45	Horizontal
5	7311.0000	51.01	-6.24	74.00	22.99	150	18	Horizontal
6	7311.0000	39.76	-6.24	54.00	14.24	150	357	Horizontal
7	17615.9808	46.40	1.21	54.00	7.60	150	292	Horizontal



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**4.9.2.1.18 802.11N20\_ Highest Channel\_ Horizontal**



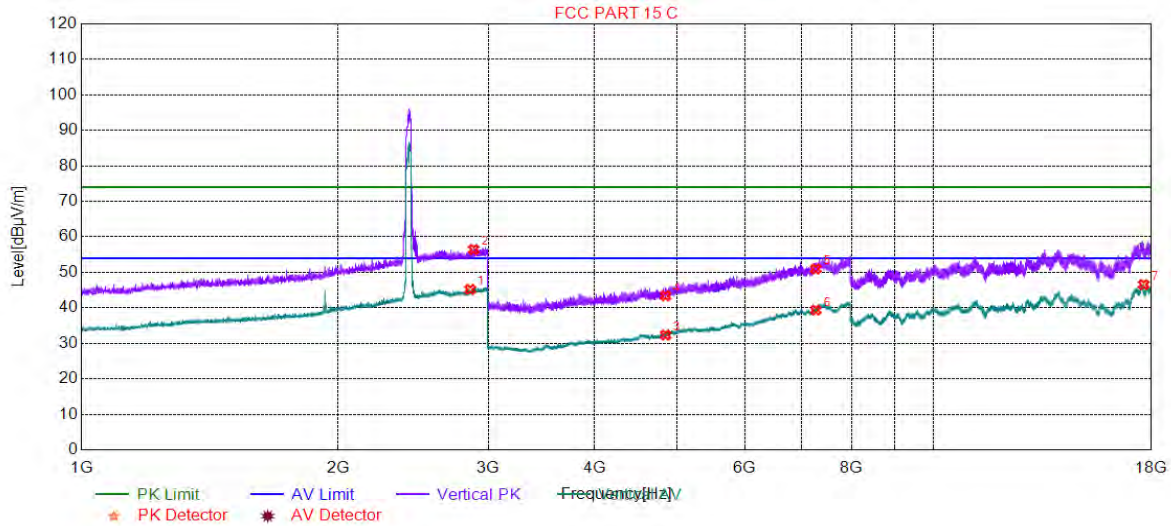
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2880.4701	56.53	11.26	74.00	17.47	150	241	Horizontal
2	2898.9747	45.44	11.40	54.00	8.56	150	241	Horizontal
3	4924.0000	32.84	-14.43	54.00	21.16	150	233	Horizontal
4	4924.0000	44.21	-14.43	74.00	29.79	150	18	Horizontal
5	7386.0000	51.91	-5.71	74.00	22.09	150	18	Horizontal
6	7386.0000	40.65	-5.71	54.00	13.35	150	72	Horizontal
7	17526.4763	46.48	0.69	54.00	7.52	150	342	Horizontal



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**4.9.2.1.19 802.11N40\_Lowest Channel\_Vertical**



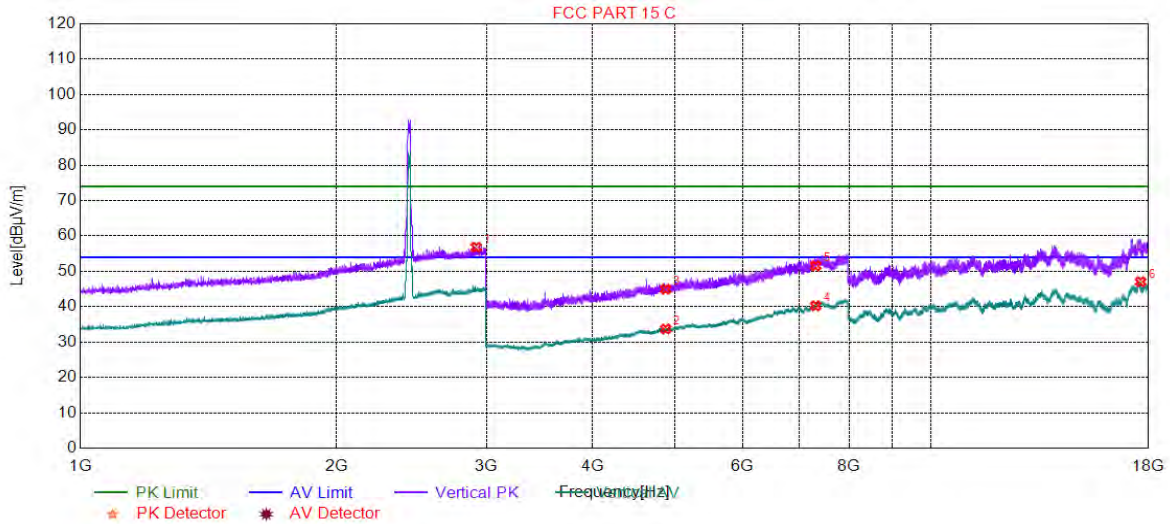
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2856.9642	45.19	11.08	54.00	8.81	150	68	Vertical
2	2884.9712	56.47	11.29	74.00	17.53	150	249	Vertical
3	4844.0000	32.35	-14.81	54.00	21.65	150	18	Vertical
4	4844.0000	43.41	-14.81	74.00	30.59	150	235	Vertical
5	7266.0000	50.97	-6.58	74.00	23.03	150	290	Vertical
6	7266.0000	39.37	-6.58	54.00	14.63	150	154	Vertical
7	17623.4812	46.56	1.02	54.00	7.44	150	342	Vertical



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**4.9.2.1.20 802.11N40\_ Middle Channel\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.4796	56.85	11.40	74.00	17.15	150	273	Vertical
2	4874.0000	33.70	-14.68	54.00	20.30	150	72	Vertical
3	4874.0000	44.94	-14.68	74.00	29.06	150	360	Vertical
4	7311.0000	40.24	-6.24	54.00	13.76	150	180	Vertical
5	7311.0000	51.56	-6.24	74.00	22.44	150	18	Vertical
6	17613.9807	47.06	1.27	54.00	6.94	150	342	Vertical

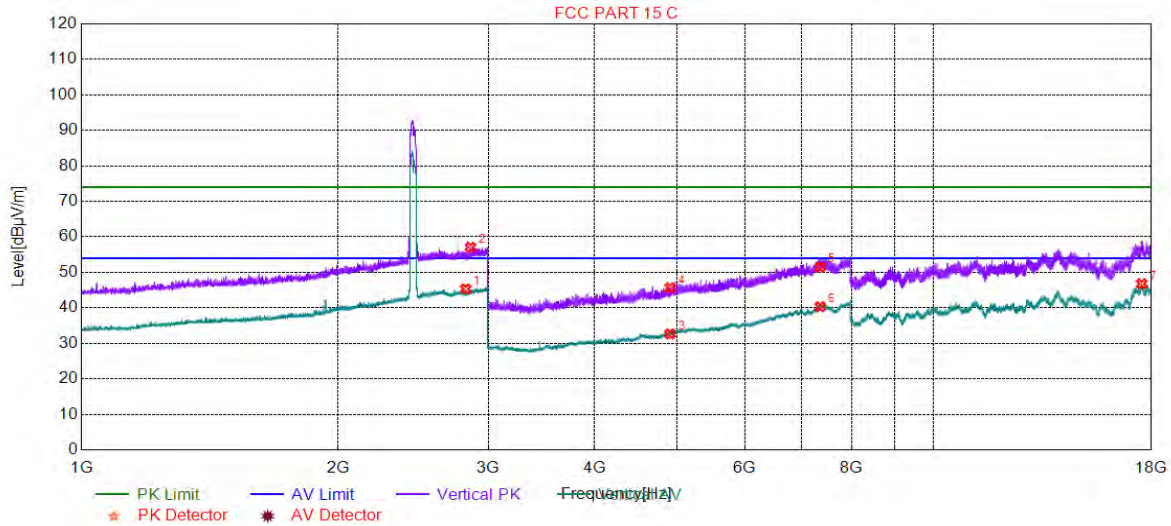


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**4.9.2.1.21 802.11N40\_ Highest Channel\_ Vertical**



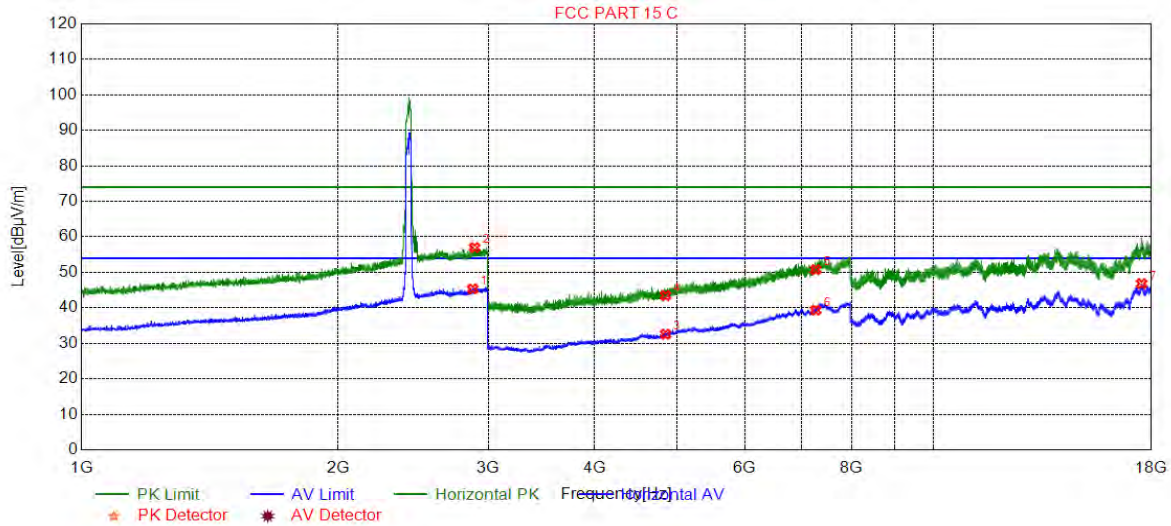
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2822.9557	45.33	10.82	54.00	8.67	150	308	Vertical
2	2859.9650	57.08	11.10	74.00	16.92	150	159	Vertical
3	4904.0000	32.67	-14.54	54.00	21.33	150	125	Vertical
4	4904.0000	45.66	-14.54	74.00	28.34	150	344	Vertical
5	7356.0000	51.49	-5.92	74.00	22.51	150	289	Vertical
6	7356.0000	40.31	-5.92	54.00	13.69	150	153	Vertical
7	17531.9766	46.77	0.76	54.00	7.23	150	143	Vertical



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**4.9.2.1.22 802.11N40\_Lowest Channel\_Horizontal**



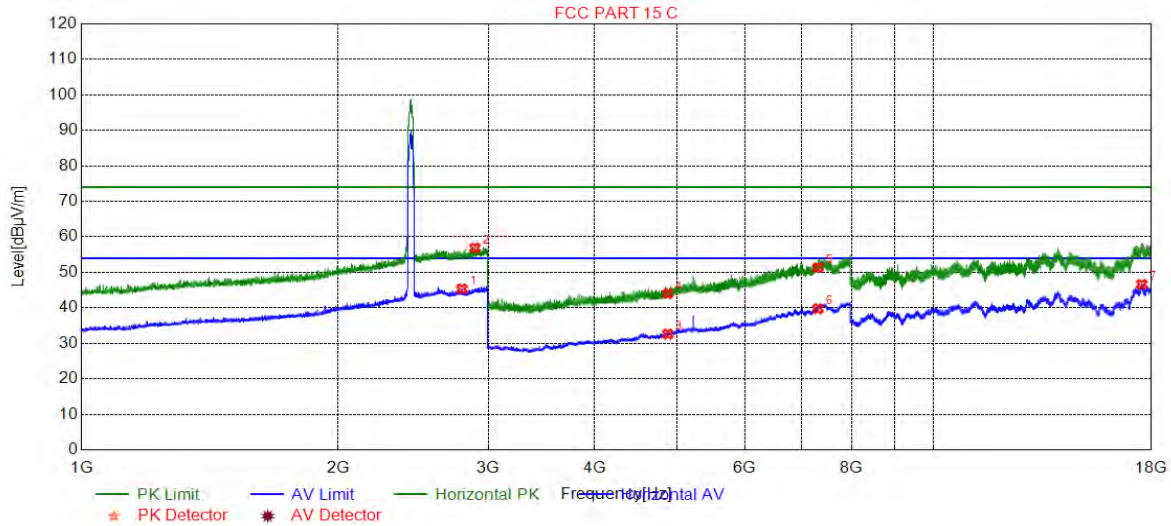
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2877.4694	45.33	11.24	54.00	8.67	150	299	Horizontal
2	2891.9730	56.99	11.35	74.00	17.01	150	342	Horizontal
3	4844.0000	32.58	-14.81	54.00	21.42	150	159	Horizontal
4	4844.0000	43.47	-14.81	74.00	30.53	150	267	Horizontal
5	7266.0000	50.76	-6.58	74.00	23.24	150	18	Horizontal
6	7266.0000	39.36	-6.58	54.00	14.64	150	159	Horizontal
7	17525.4763	46.81	0.68	54.00	7.19	150	43	Horizontal



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**4.9.2.1.23 802.11N40\_ Middle Channel\_ Horizontal**



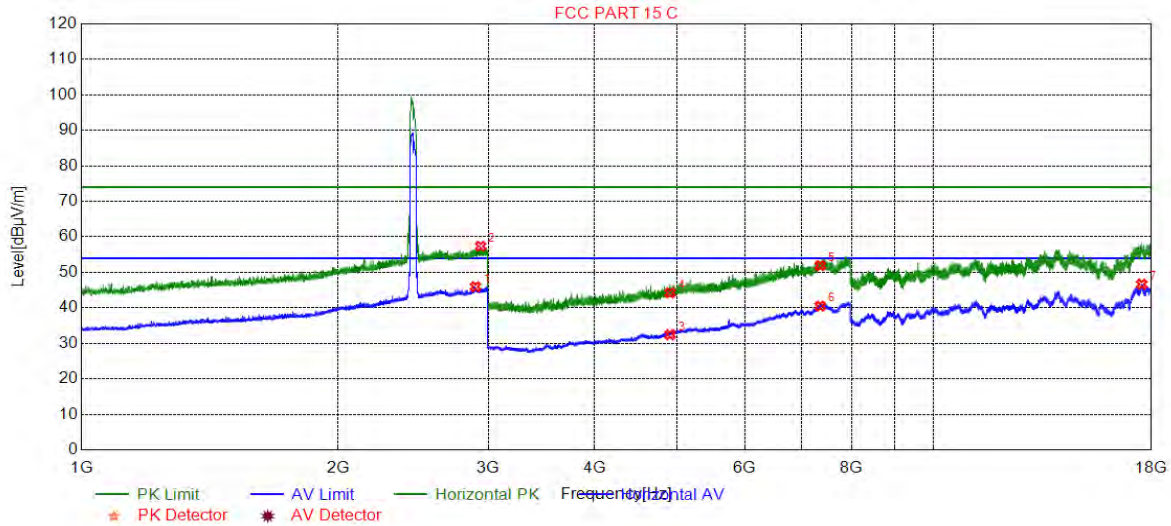
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2793.9485	45.36	10.60	54.00	8.64	150	280	Horizontal
2	2894.4736	56.90	11.37	74.00	17.10	150	133	Horizontal
3	4874.0000	32.65	-14.68	54.00	21.35	150	72	Horizontal
4	4874.0000	44.02	-14.68	74.00	29.98	150	317	Horizontal
5	7311.0000	51.37	-6.24	74.00	22.63	150	154	Horizontal
6	7311.0000	39.75	-6.24	54.00	14.25	150	235	Horizontal
7	17531.9766	46.61	0.76	54.00	7.39	150	243	Horizontal



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**4.9.2.1.24 802.11N40\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2898.9747	45.97	11.40	54.00	8.03	150	113	Horizontal
2	2938.9847	57.37	11.39	74.00	16.63	150	76	Horizontal
3	4904.0000	32.46	-14.54	54.00	21.54	150	154	Horizontal
4	4904.0000	44.21	-14.54	74.00	29.79	150	317	Horizontal
5	7356.0000	51.88	-5.92	74.00	22.12	150	344	Horizontal
6	7356.0000	40.51	-5.92	54.00	13.49	150	263	Horizontal
7	17529.9765	46.67	0.73	54.00	7.33	150	342	Horizontal

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz		54.0	Average Value
		74.0	Peak Value
Test Setup:			

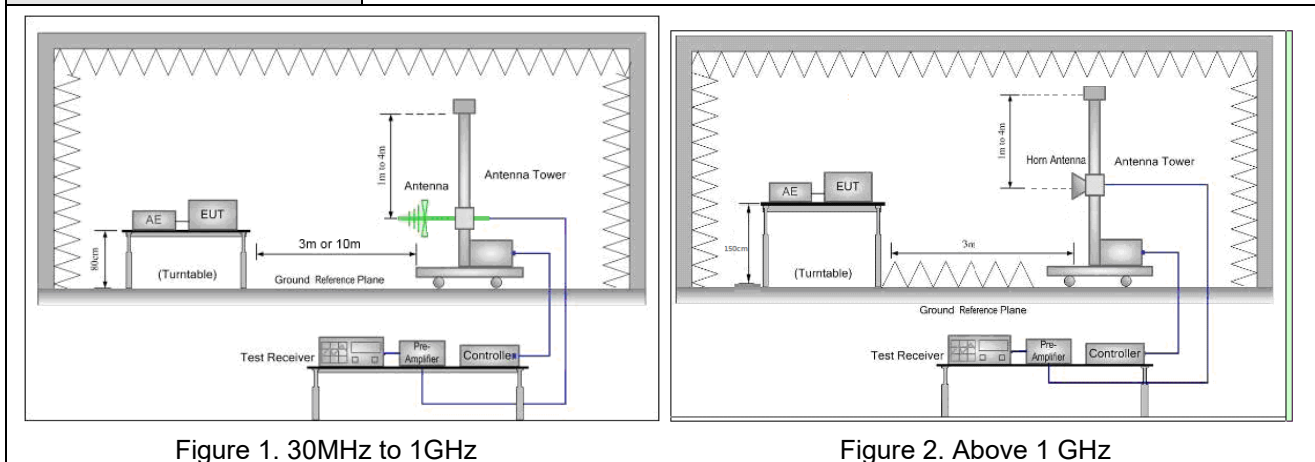


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40). Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>



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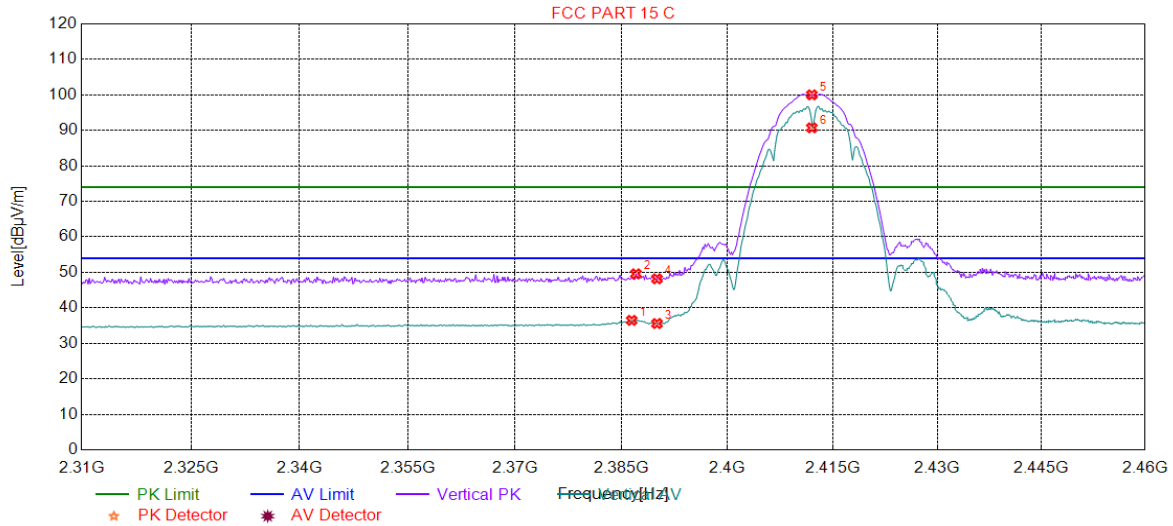
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Test plot as follows:

**4.10.1 ANT1**

**4.10.1.1 802.11B\_Lowest Channel\_ Vertical**



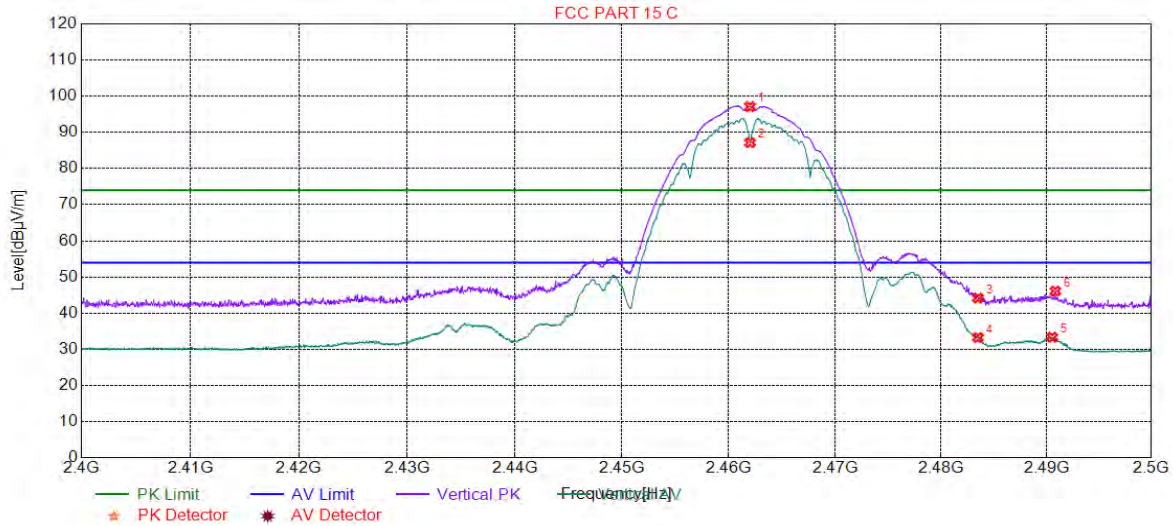
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.4264	36.48	9.19	54.00	17.52	150	315	Vertical
2	2387.0270	49.58	9.19	74.00	24.42	150	143	Vertical
3	2390.0000	35.59	9.20	54.00	18.41	150	315	Vertical
4	2390.0000	48.19	9.20	74.00	25.81	150	315	Vertical
5	2412.0000	100.01	9.27	74.00	-26.01	150	311	Vertical
6	2412.0000	90.72	9.27	54.00	-36.72	150	315	Vertical



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**4.10.1.2 802.11B\_ Highest Channel\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	97.11	9.43	74.00	-23.11	150	52	Vertical
2	2462.0000	87.17	9.43	54.00	-33.17	150	57	Vertical
3	2483.5000	44.18	9.50	74.00	29.82	150	226	Vertical
4	2483.5000	33.22	9.50	54.00	20.78	150	177	Vertical
5	2490.5453	33.35	9.52	54.00	20.65	150	52	Vertical
6	2490.8454	46.08	9.52	74.00	27.92	150	232	Vertical

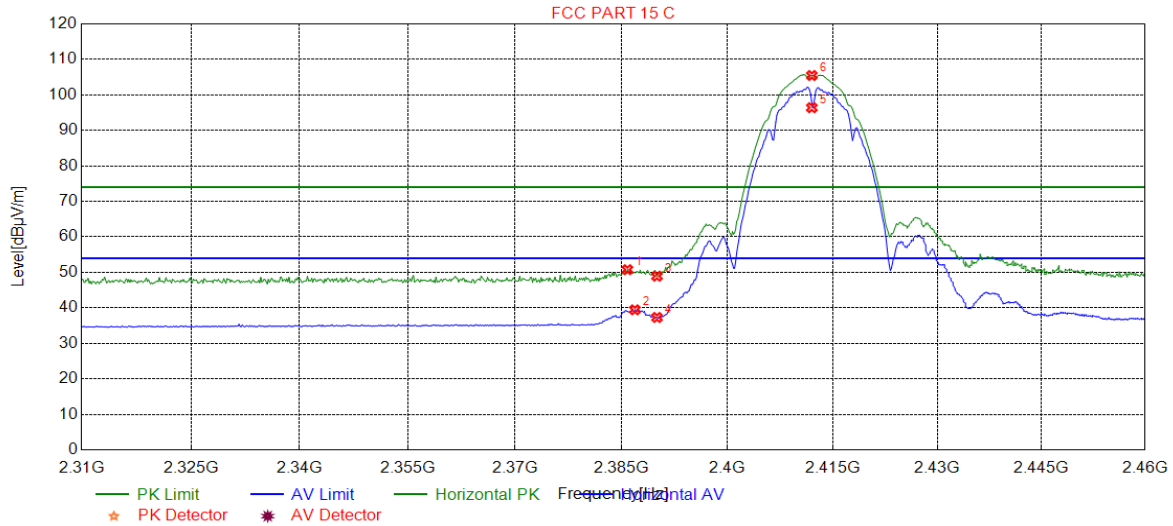


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**4.10.1.3 802.11B\_Lowest Channel\_Horizontal**



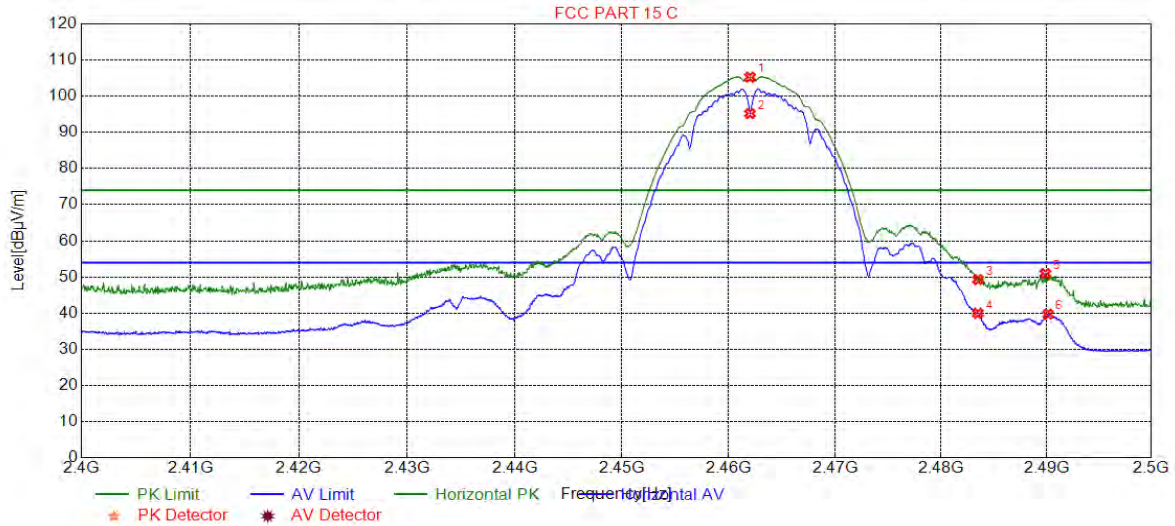
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.8258	50.76	9.18	74.00	23.24	150	25	Horizontal
2	2386.8769	39.45	9.19	54.00	14.55	150	182	Horizontal
3	2390.0000	48.94	9.20	74.00	25.06	150	145	Horizontal
4	2390.0000	37.30	9.20	54.00	16.70	150	203	Horizontal
5	2412.0000	96.39	9.27	54.00	-42.39	150	178	Horizontal
6	2412.0000	105.46	9.27	74.00	-31.46	150	182	Horizontal



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**4.10.1.4 802.11B\_ Highest Channel\_ Horizontal**



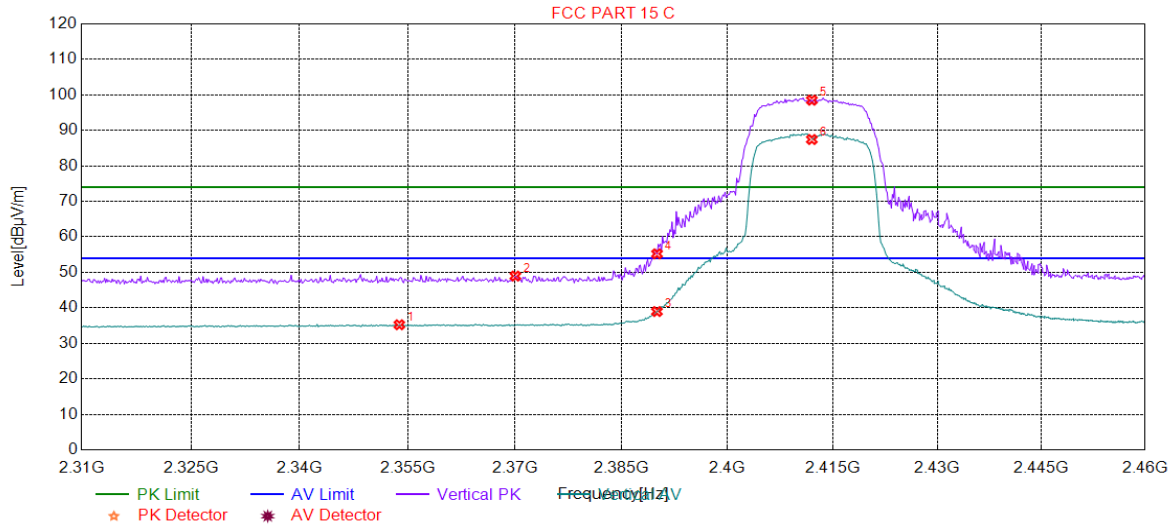
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	105.26	9.43	74.00	-31.26	150	183	Horizontal
2	2462.0000	95.20	9.43	54.00	-41.20	150	194	Horizontal
3	2483.5000	49.28	9.50	74.00	24.72	150	194	Horizontal
4	2483.5000	39.95	9.50	54.00	14.05	150	144	Horizontal
5	2489.8949	50.97	9.52	74.00	23.03	150	144	Horizontal
6	2490.1451	39.74	9.52	54.00	14.26	150	144	Horizontal



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**4.10.1.5 802.11G\_Lowest Channel\_Vertical**



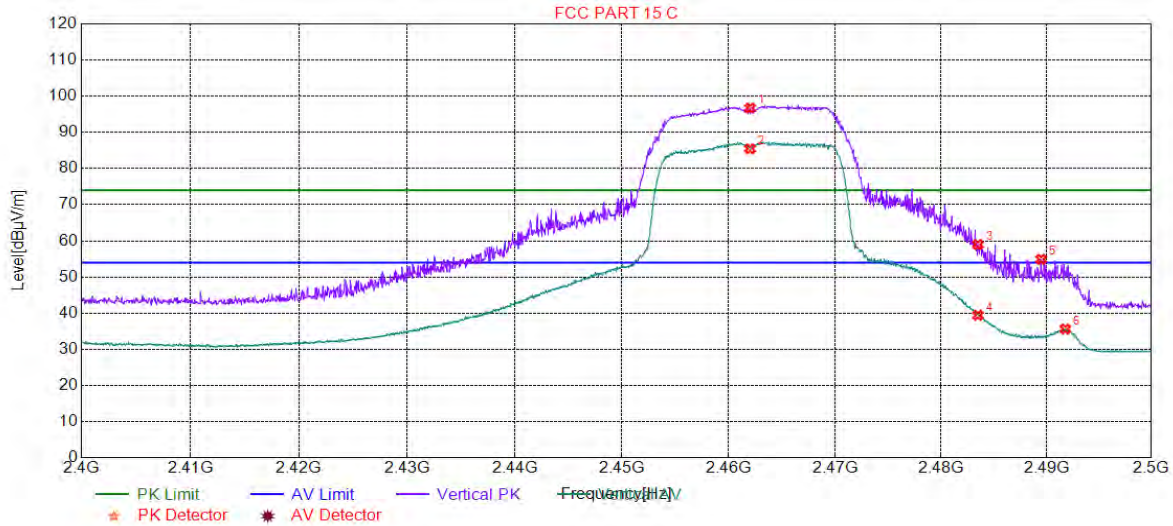
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2353.8438	35.25	9.08	54.00	18.75	150	323	Vertical
2	2370.0601	48.96	9.13	74.00	25.04	150	64	Vertical
3	2390.0000	38.97	9.20	54.00	15.03	150	310	Vertical
4	2390.0000	55.22	9.20	74.00	18.78	150	53	Vertical
5	2412.0000	98.50	9.27	74.00	-24.50	150	314	Vertical
6	2412.0000	87.43	9.27	54.00	-33.43	150	314	Vertical



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**4.10.1.6 802.11G\_ Highest Channel\_ Vertical**



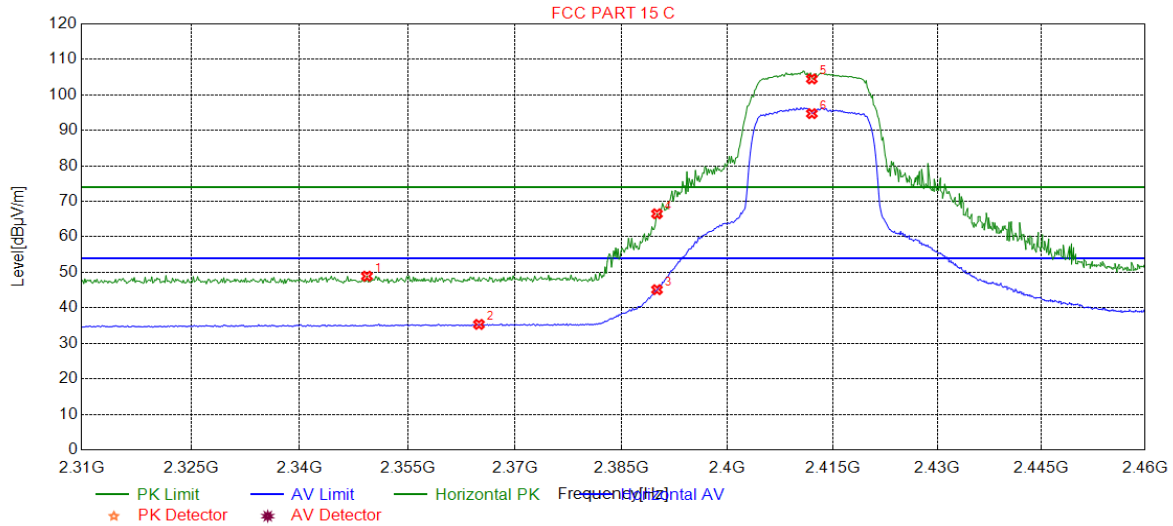
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	96.73	9.43	74.00	-22.73	150	202	Vertical
2	2462.0000	85.45	9.43	54.00	-31.45	150	202	Vertical
3	2483.5000	58.97	9.50	74.00	15.03	150	202	Vertical
4	2483.5000	39.42	9.50	54.00	14.58	150	298	Vertical
5	2489.4947	54.90	9.52	74.00	19.10	150	202	Vertical
6	2491.7959	35.63	9.52	54.00	18.37	150	202	Vertical



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**4.10.1.7 802.11G\_Lowest Channel\_Horizontal**



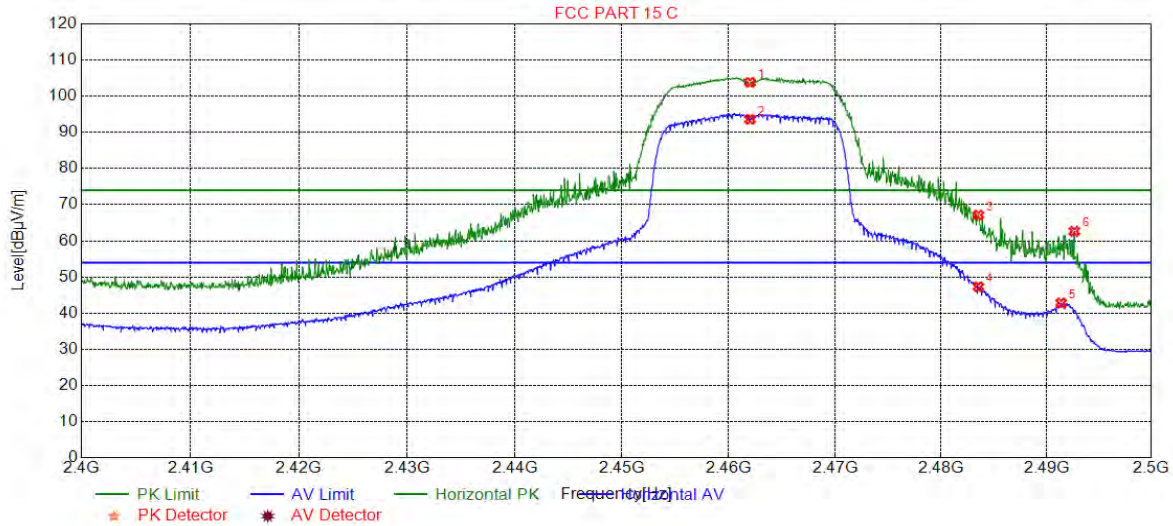
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2349.3393	48.93	9.06	74.00	25.07	150	70	Horizontal
2	2364.9550	35.34	9.11	54.00	18.66	150	134	Horizontal
3	2390.0000	45.12	9.20	54.00	8.88	150	202	Horizontal
4	2390.0000	66.50	9.20	74.00	7.50	150	208	Horizontal
5	2412.0000	104.49	9.27	74.00	-30.49	150	213	Horizontal
6	2412.0000	94.72	9.27	54.00	-40.72	150	208	Horizontal



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**4.10.1.8 802.11G\_ Highest Channel\_ Horizontal**

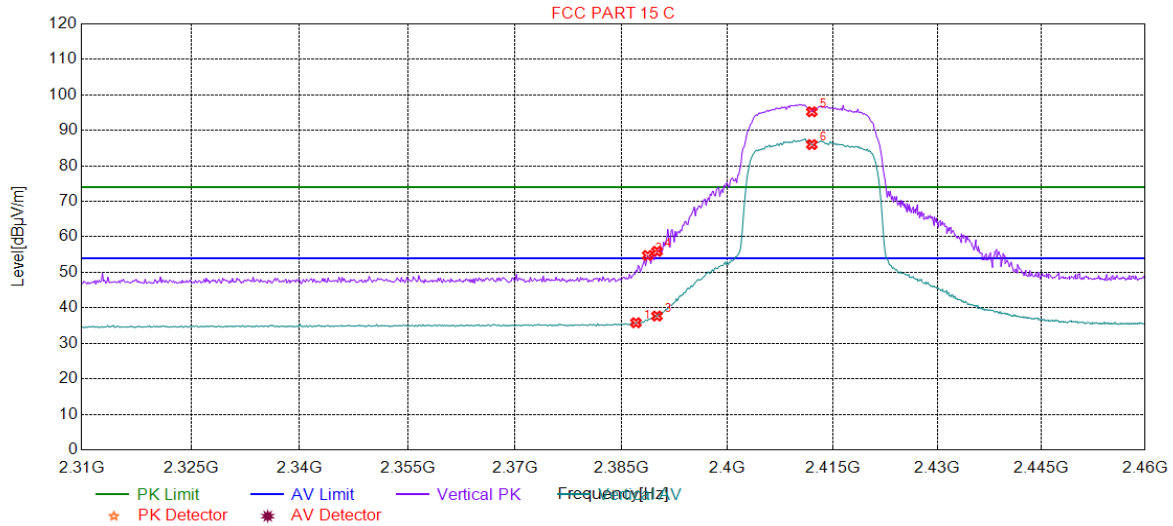


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	103.81	9.43	74.00	-29.81	150	182	Horizontal
2	2462.0000	93.60	9.43	54.00	-39.60	150	182	Horizontal
3	2483.5418	67.12	9.50	74.00	6.88	150	182	Horizontal
4	2483.5418	47.28	9.50	54.00	6.72	150	182	Horizontal
5	2491.3957	42.80	9.52	54.00	11.20	150	182	Horizontal
6	2492.6463	62.64	9.53	74.00	11.36	150	182	Horizontal



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**4.10.1.9 802.11N20\_Lowest Channel\_Vertical**



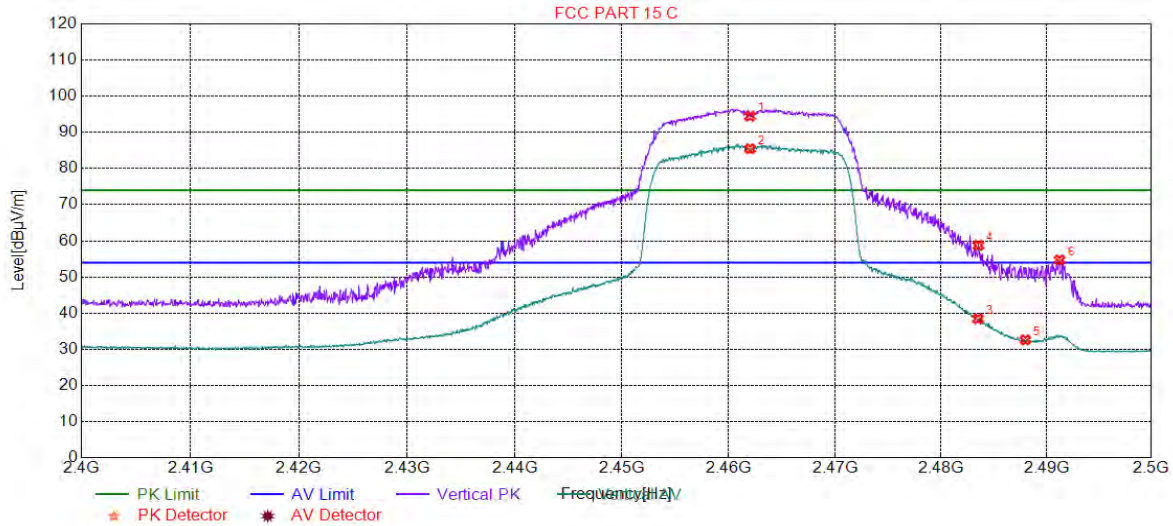
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.0270	35.81	9.19	54.00	18.19	150	187	Vertical
2	2388.6787	54.76	9.19	74.00	19.24	150	316	Vertical
3	2390.0000	37.70	9.20	54.00	16.30	150	108	Vertical
4	2390.0000	55.93	9.20	74.00	18.07	150	67	Vertical
5	2412.0000	95.23	9.27	74.00	-21.23	150	308	Vertical
6	2412.0000	86.00	9.27	54.00	-32.00	150	312	Vertical



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**4.10.1.10 802.11N20\_ Highest Channel\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	94.47	9.43	74.00	-20.47	150	14	Vertical
2	2462.0000	85.46	9.43	54.00	-31.46	150	14	Vertical
3	2483.5000	38.44	9.50	54.00	15.56	150	14	Vertical
4	2483.5418	58.73	9.50	74.00	15.27	150	14	Vertical
5	2487.9940	32.61	9.51	54.00	21.39	150	14	Vertical
6	2491.2456	54.72	9.52	74.00	19.28	150	14	Vertical

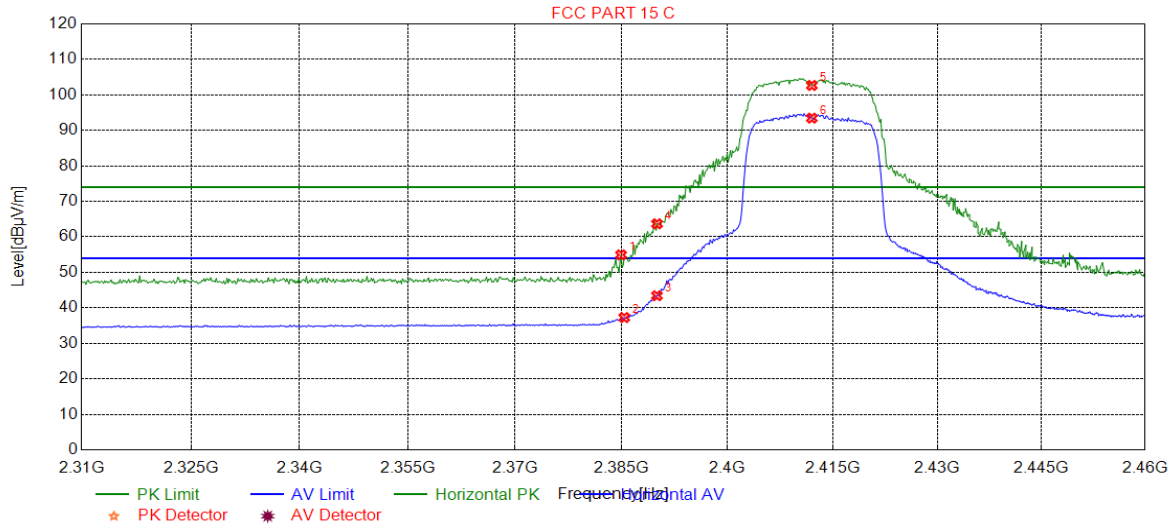


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**4.10.1.11 802.11N20\_Lowest Channel\_Horizontal**



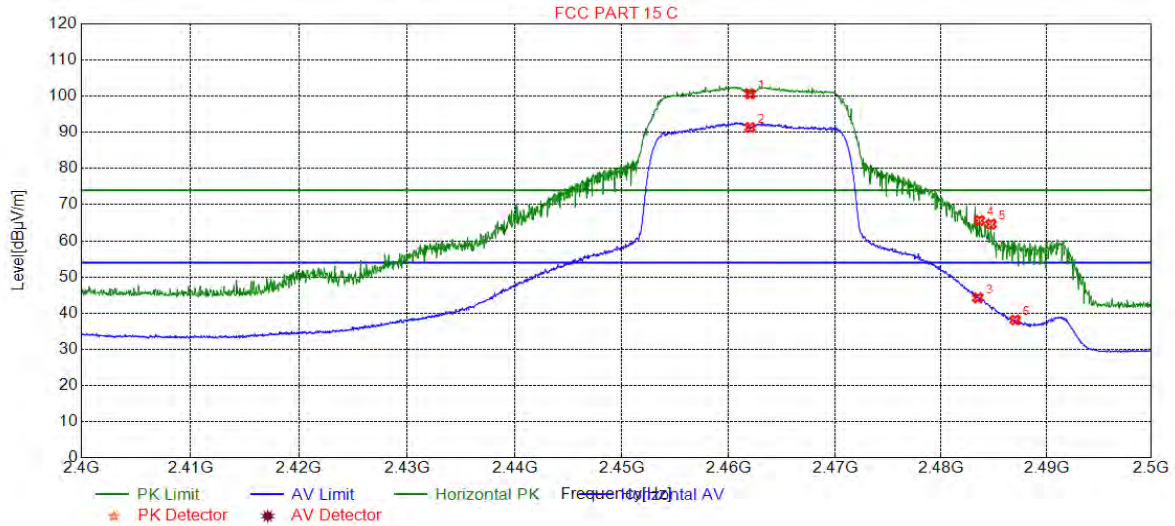
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.9249	54.93	9.18	74.00	19.07	150	192	Horizontal
2	2385.3754	37.28	9.18	54.00	16.72	150	184	Horizontal
3	2390.0000	43.43	9.20	54.00	10.57	150	180	Horizontal
4	2390.0000	63.69	9.20	74.00	10.31	150	205	Horizontal
5	2412.0000	102.65	9.27	74.00	-28.65	150	184	Horizontal
6	2412.0000	93.44	9.27	54.00	-39.44	150	184	Horizontal



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**4.10.1.12 802.11N20\_ Highest Channel\_ Horizontal**

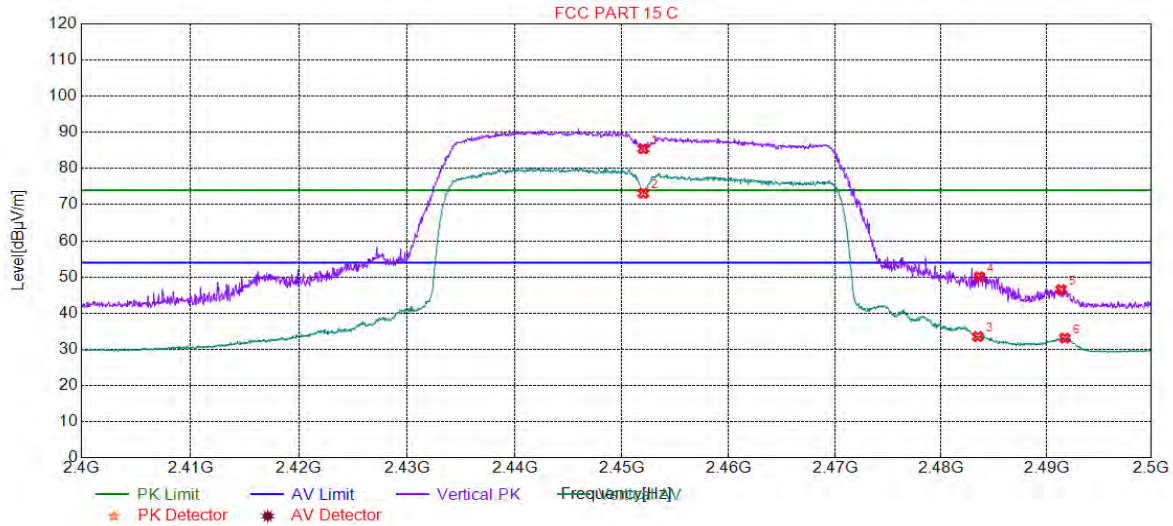


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	100.63	9.43	74.00	-26.63	150	179	Horizontal
2	2462.0000	91.33	9.43	54.00	-37.33	150	190	Horizontal
3	2483.5000	44.25	9.50	54.00	9.75	150	190	Horizontal
4	2483.6418	65.64	9.50	74.00	8.36	150	184	Horizontal
5	2484.7424	64.63	9.50	74.00	9.37	150	184	Horizontal
6	2487.0435	38.11	9.51	54.00	15.89	150	184	Horizontal



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**4.10.1.13 802.11N40\_Lowest Channel\_Vertical**



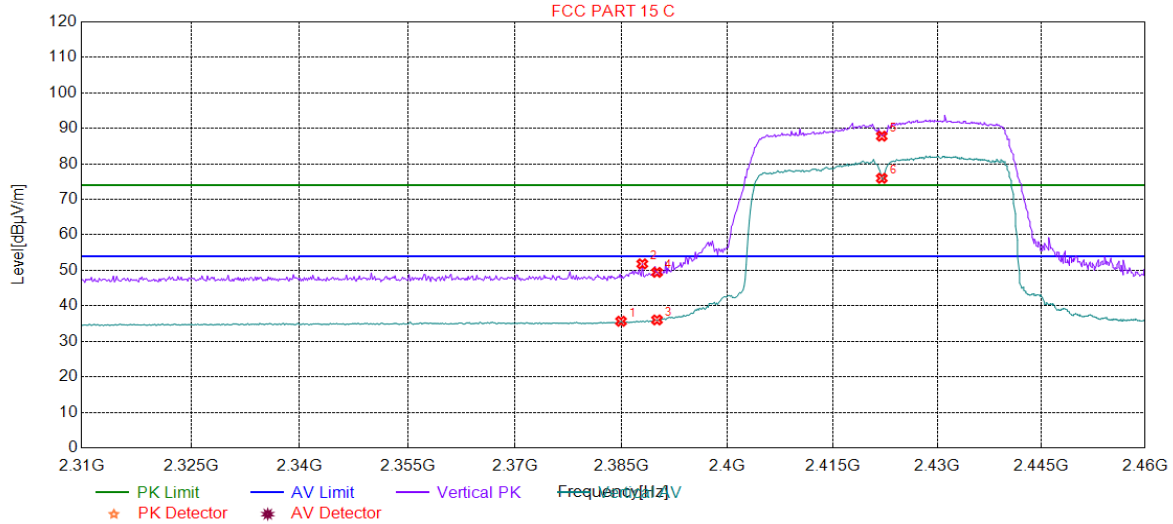
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	85.43	9.40	74.00	-11.43	150	14	Vertical
2	2452.0000	73.13	9.40	54.00	-19.13	150	14	Vertical
3	2483.5000	33.52	9.50	54.00	20.48	150	14	Vertical
4	2483.6418	50.07	9.50	74.00	23.93	150	14	Vertical
5	2491.3957	46.52	9.52	74.00	27.48	150	14	Vertical
6	2491.7459	33.07	9.52	54.00	20.93	150	14	Vertical



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**4.10.1.14 802.11N40\_ Highest Channel\_ Vertical**



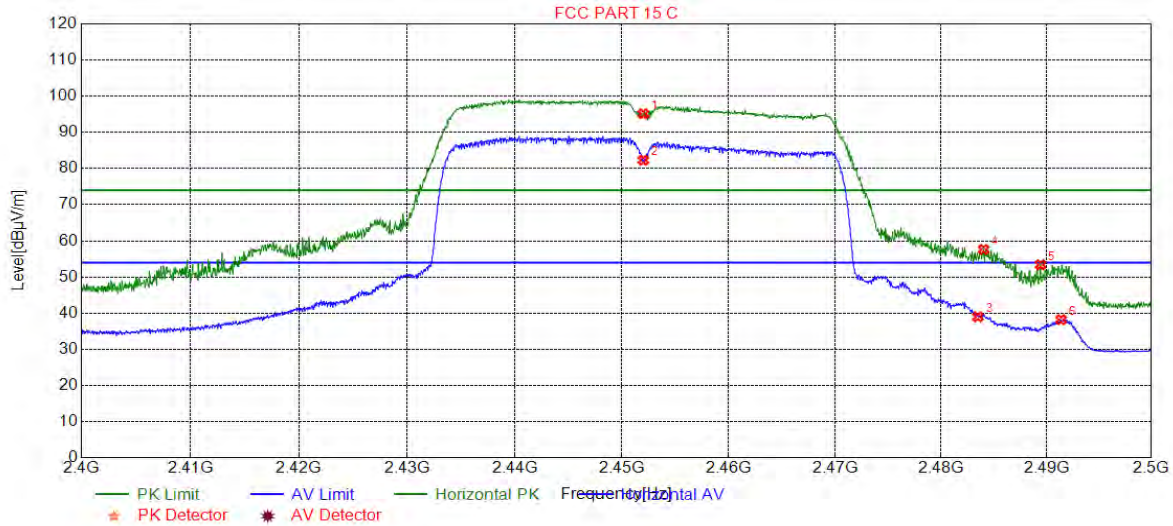
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.9249	35.67	9.18	54.00	18.33	150	250	Vertical
2	2387.9279	51.83	9.19	74.00	22.17	150	183	Vertical
3	2390.0000	36.04	9.20	54.00	17.96	150	67	Vertical
4	2390.0000	49.44	9.20	74.00	24.56	150	108	Vertical
5	2422.0000	87.80	9.30	74.00	-13.80	150	183	Vertical
6	2422.0000	75.94	9.30	54.00	-21.94	150	183	Vertical



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**4.10.1.15 802.11N40\_Lowest Channel\_Horizontal**



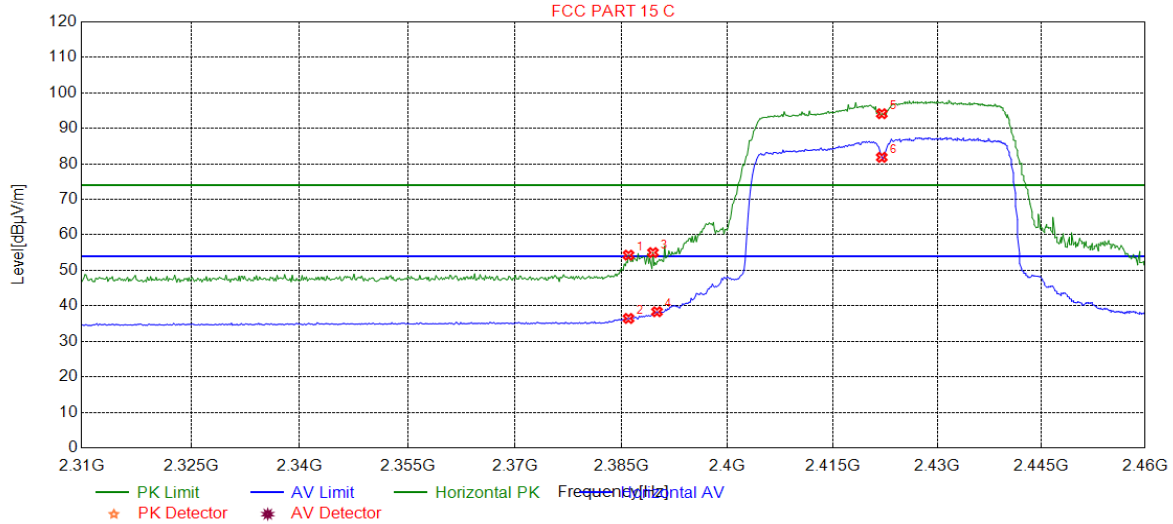
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	95.13	9.40	74.00	-21.13	150	133	Horizontal
2	2452.0000	82.30	9.40	54.00	-28.30	150	145	Horizontal
3	2483.5000	38.97	9.50	54.00	15.03	150	150	Horizontal
4	2484.0420	57.63	9.50	74.00	16.37	150	139	Horizontal
5	2489.4447	53.39	9.52	74.00	20.61	150	145	Horizontal
6	2491.3957	38.19	9.52	54.00	15.81	150	150	Horizontal



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**4.10.1.16 802.11N40\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.9760	54.29	9.18	74.00	19.71	150	191	Horizontal
2	2385.9760	36.46	9.18	54.00	17.54	150	187	Horizontal
3	2389.4294	55.01	9.20	74.00	18.99	150	187	Horizontal
4	2390.0000	38.35	9.20	54.00	15.65	150	187	Horizontal
5	2422.0000	94.13	9.30	74.00	-20.13	150	146	Horizontal
6	2422.0000	81.84	9.30	54.00	-27.84	150	146	Horizontal

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$Final\ Test\ Level = Receiver\ Reading + Antenna\ Factor + Cable\ Factor - Preamplifier\ Factor$

All Modes have been tested, but only the worst case data displayed in this report.



## 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/9/3	2020/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2018/3/15	2020/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2019/B0003.

The End



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